

2000 ANNUAL EXHIBITION

Imperial College, London SW7—11 November 2000

The following account of exhibits has been compiled by A. M. Jones (British butterflies), G. A. Collins (British Macrolepidoptera), H. E. Beaumont (British Microlepidoptera), N. M. Hall (Foreign Lepidoptera), P. J. Chandler (Diptera), R. Booth (Coleoptera), A. J. A. Stewart (Hemiptera), A. J. Halstead (Hymenoptera and other orders), R. Dyke (Illustrations). The photographs for the two colour plates were taken by D. E. Wilson and the cost of printing these plates was met by a grant from the Hammond Memorial Fund.

Exhibits under the theme "Garden insects" were invited as part of the Annual Exhibition in 2000. The notes from these exhibits have been incorporated in the usual categories but appropriate mention has been made if specimens were exhibited under this theme.

BRITISH BUTTERFLIES

BAILEY, K. E. J.—"An atlas of butterflies of Dipfield, a somewhat unkempt Devonshire property." A display of the butterflies found at the exhibitor's property where supervised neglect has encouraged breeding populations of *Aglais urticae* (L.), *Inachis io* (L.), *Polygonia c-album* (L.), *Pyronia tithonus* (L.), *Aphantopus hyperantus* (L.), *Lasionnata megera* (L.), *Pararge aegeria* (L.), *Ochlodes venata* (Bremer & Grey), *Thymelicus sylvestris* (Poda), *Polyommatus icarus* (Rott.), *Lycaena phlaeas* (L.), *Thecla betulae* (L.) and *Celastrina argiolus* (L.), and also the migrants *Colias croceus* (Geoffroy), *Vanessa atalanta* (L.) and *Cynthia cardui* (L.). The planting of buckthorn in the hedgerows has made the once rare *Gonepteryx rhamni* (L.) an occasional visitor, and buddleia bushes have attracted several rare aberrations including *A. urticae* ab. *pseudocommexa* Cabeau and ab. *semiichmusoides* Pronin as well as vagrant *Argynnis paphia* (L.).

Wild-caught and bred aberrations: Specimens created by temperature experiments included *Colias croceus* (Geoffroy) approaching ab. *nigrofasciata* Verity (Plate 1, Fig. 4), from chilled prepupae and cold-shocked pupae. *Aglais urticae* (L.), an ab. *conjuncta* Meuberg from heat-shocked pupa, an ab. *semiichmusoides* Pronin with extended blue lunules from cold-shocked pupa. *Argynnis paphia* (L.), a series of extreme melanic aberrations from inbred ab. *valesina* Esper stock, resulting from larvae subjected to a change in the daily temperature rhythm just before pupation and the young pupae cold shocked. Minor and extreme melanic specimens of *Issoria lathonia* (L.) from similarly treated stock. *Melitaea cinxia* (L.), two extreme aberrations from chilled prepupae and then pupal temperature shocks. Other bred specimens included examples of *A. urticae* extreme ab. *pseudocommexa* from selected pairings and specimens with additional postdiscal spots. Wild-caught specimens included *Lasionnata megera* (L.), a male approaching ab. *mediolugens* Fuchs, Devon, v. 2000; *Pyronia tithonus* (L.), female with a large bleached patch around the unaffected ocellus, Devon, viii.2000; *Melanargia galathea* (L.) ab. *valantini* Williams, males from a remote Devon site, vii.2000—breeding stock from similar females has been obtained.

Polygonia c-album (L.), a bilateral gynandromorph (Plate 1, Fig. 12) set to show the dimorphic front legs as well as the wing pattern, bred by William Graham-Smith, New Forest, 1931.

Hybridisation experiments between English *Apatura iris* (L.) and French *Apatura ilia ilia* (D.& S.): Two male hybrids were exhibited (Plate 1, Figs 6 & 7). These were obtained by hand-pairing male *iris* to female *ilia*. The females were sleeved in tissue paper bags on growing aspen trees in the greenhouse; 200+ ova were laid, about 100 coloured up but only 30 hatched. The young larvae were placed on fresh Lombardy poplar leaves but only 6 commenced to feed; 3 larvae died at the first moult and the 3 remaining reached the penultimate instar when they set to pupate under leaves. The exhibitor removed each leaf and pinned them to a cork sheet set at an angle of 45° to the horizontal to simulate the natural state; a safety net of cling film was then arranged underneath. The prepupal period lasted 23 hours, and assistance was necessary to ensure that the larval carapace split; this was done with the aid of two simple instruments made from cocktail sticks with loops of fine wire on the ends; these were slipped over the larval 'horns' and lateral pressure applied until the correct divergence angle was reached. This resulted in 3 near-perfect pupae; one failed to emerge but the other two produced small male specimens showing characters of both parents.

BOWDREY, J. P. A female *Maniola jurtina* (L.) captured at Colchester, Essex 16.viii.2000, with pale hindwings.

BUTLER, A.—A selection of aberrations: *Lycaena phlaeas* (L.) ab. *subradiata* Tutt, bred, Swanage, Dorset, v.1999. *Aricia artaxerxes salmaceis* (Stephens) ab. *unicolor* Lempke (Plate 1, Fig. 10) and ab. *vedrae* Harrison, captured, Kirkby Stephen district, vi.2000. *Lysandra coridon* (Poda), various named aberrations including ab. *caeca* Courv., ab. *infrasemisyngrapha* B.& L., and ab. *crassipuncta-basijuncta* Tutt, all captured, Chilterns, vii & viii.2000. *Pyronia tithonus* (L.) ab. *pallidemarginata* Oberthür, captured, Swanage, Dorset, vii.2000.

Specimens obtained from temperature experiments: *Polyommatus icarus* (Rott.) ab. *obsoleta* Gillmer and ab. *subobsoleta* Tutt, bred viii.2000, *Aglais urticae* (L.) ab. *semiichnusoides* Pronin and ab. *nigricaria* Lambillion, bred ix.2000, *Ladoga camilla* (L.) ab. *nigrina* Weymer, bred ix.1999, *Vanessa atalanta* (L.) ab. *klemensiewiczzi*, bred vii.1999, *Polygonia c-album* (L.) ab. *obscura* Closs, bred ix.2000, and *Argynnis paphia* (L.) ab. *conjuncta* Schawerda and ab. *confluens* Spuler, bred vi.2000.

A purchased *Argynnis paphia* (L.) without data, presumed to be ab. *marillae* Anger with extensive silver markings on the underside hindwings.

CHESMORE, D.—*Cynthia cardui* (L.), two dwarf specimens captured on a disused railway line near Kiplingcotes, Market Weighton, East Yorkshire, 17.viii.1996. The wingspans were 40 mm and 36 mm, well below the normal range of 58–70 mm in the male and 62–74 mm in the female. A normal specimen with a wing span of 60 mm was shown for comparison. *Aglais urticae* (L.), an aberration approaching ab. *semiichnusoides* Pronin captured in the exhibitor's back garden at Holme on Spalding Moor, Yorks., 20.ix.1991. *Maniola jurtina* (L.) ab. *grisea-aurea* Oberthür, a female captured in a disused chalk pit at Kiplingcotes railway station near Market Weighton, East Yorkshire, 23.vii.2000.

HARMER, A. S.—*Colias croceus* (Geoffroy): Selected specimens bred from a f. *helice* Hübner taken in the exhibitor's garden in Lymington, Hants., on 16.vi.2000. The ante-marginal spotting to the underside of the P1 female was noted as being slightly more developed and cuneate than normal. Among the resulting F₁ generation the development of the spotting ranged from typical in appearance to enlarged wedge-shaped markings, suggesting that the aberration was an example of continuous variation. However, the anticipated improvement in the development of the spotting in the F₂ generation to be expected from selected sibling pairings was not fulfilled. The aberration appears to be unnamed. Other *C. croceus* exhibited included

f. *helice* ab. *basisuffusa* Lempke (F₁ Generation), and f. *helice* ab. *nigra* Aigner + *latemarginata* Lempke + *basisuffusa* Lempke (F₂ generation) (Plate 1, Fig. 1). *Aphantopus hyperantus* (L.): Two female ab. *lanceolata* Shipp from F₅ generation Sussex stock. Attempts to further inbreed have resulted in infertile ova. Two male ab. *lanceolata* Shipp + *arete* Müller from the F₂ generation of a *lanceolata* × *arete* cross. This brood consisted of 14 typical males, 16 typical females, 4 *arete* males, 0 *arete* females, 2 *lanceolata* males, 4 *lanceolata* females, and 3 *lanceolata* + *arete* males; a further example of the double aberration failed to emerge (sex unconfirmed). *Lysandra coridon* (Poda): a female ab. *radio* B. & L. taken in East Sussex.

HONEY, M. R.—A note indicating two new butterfly records in 2000 for the Wildlife Garden of the Natural History Museum, London, *Neozephyrus quercus* (L.) and *Polyommatus icarus* (Rott.).

JONES, A. M.—*Colias croceus* (Geoffroy), a female underside with reduced and obsolete markings, captured Surrey, 17.ix.2000 (Plate 1, Fig. 5). *Pieris rapae* (L.), a female ab. *fasciata* Tutt, bred Epsom, Surrey, vi.2000. *Lycaena phlaeas* (L.), a male extreme ab. *parvipuncta* Tutt, bred West Sussex x.2000. *Polygonia c-album* (L.), a male ab. *obscura* Closs, bred under natural conditions, Surrey, 6.vii.2000. *Aricia agestis* (D. & S.), the results of breeding from a female ab. *pallidior* Oberthür captured viii.1999. The F₁ generation, bred x.1999, were 100% typical; the F₂ generation, bred xi & xii.1999, were 25% *pallidior*, typical of a recessive gene; however this included 5 *pallidior* females with splashes of typical colouration; no males were noted with this condition nor any typical specimens with *pallidior* markings. The genetics of this freak occurrence are unknown.

MASTERS, I. D.—*Colias croceus* (Geoffroy), three specimens of f. *helice* Hübner showing a range of colour variation within this form, captured Middleton on Sea, West Sussex, 28.viii.2000. A typical female shown for comparison, captured Crugmeer, Padstow, North Cornwall, 22.viii.1969.

ROUSE, T.—*Lysandra bellargus* (Rott.), two ab. *obsoleta* Tutt, both captured at Folkestone, Kent, 1.ix.1999 & 27.viii.2000. *Melanargia galathea* (L.), ab. *citrana* Lambillion, captured Folkestone, Kent, 6.viii.2000.

TEBBUTT, P.—Specimens from temperature experiments included *Vanessa atalanta* (L.) ab. *infranigrans* Lempke with almost uniform blackish hindwings to the underside. *Cynthia cardui* (L.) ab. *priameis* Schultz, with elongated hindwing spotting, and ab. *elymi* Rambur (only 2 specimens emerged from 8 that coloured up). *Inachis io* (L.) ab. *belasaria* Oberthür (only 1 specimen from 14 pupae that coloured up), from heat shock. *Aglaia urticae* (L.) ab. *semiichnusoides* Pronin and ab. *nigricaria* Lambillion, also from heat shock. The highlight of the exhibitor's bred specimens was a possibly unique *Lycaena dispar batavus* Oberthür, bilateral gynandromorph (Plate 1, Fig. 3). Other bred specimens included *Pieris napi* (L.) ab. *confluens* Schima; these showed a graduation in the black scaling between the forewing discal spots, from only a few scales to a heavy dusting. Also exhibited were a male ab. *punctata* Nordstrom and a male ab. *deficiens* Rocci with only light basal green veins to the underside. *Anthocharis cardamines* (L.) ab. *oculacea* Salzl, ab. *costoenigrata* Closs, a pair of ab. *antiquincunx* Bryk with small forewing discoidal spots, and a female underside ab. *bilineata* Mezger with two short black lines below the discal spot. *Pieris rapae* (L.) ab. *leucotera* Stefanelli + ab. *unimacula* Dziurzynski, a female lacking the apical patch and lower forewing spot. *Lysandra coridon* (Poda), a pair of ab. *antidigitata* B. & L., the female being particularly extreme (Plate 1, Fig. 8). Wild-caught specimens included *Lysandra coridon* (Poda), a short series of ab. *obsoleta* Tutt and ab. *caeca* B. & L., an ab. *antidisereta* Tutt, ab. *glomerata* Tutt, ab. *parallela* Courv., and ab. *inaequalis* Tutt. *Melanargia galathea* (L.)

females ab. *nigricans* Culot and ab. *fasciata* Lambillion. *Pyronia tithonus* (L.), a pair of ab. *antiparvipunctata* Leeds, a male ab. *postlanceolata* Leeds and a female ab. *lugens* Oberthür. *Maniola jurtina* (L.), ab. *caeca* Rebel, ab. *antiparvipunctata* Leeds and ab. *postaurolancea* Leeds. *Aphantopus hyperantus* (L.), an unusual specimen with the right hindwing underside almost totally black but with the white pupils unchanged (Plate 1, Fig. 9).

TUNMORE, M.—A male *Colias croceus* (Geoffroy), found dead by the side of the road with large areas of the upperside yellow ground colour appearing white (Plate 1, Fig. 2), Longrock, Penzance, Cornwall, 15.viii.2000, S. J. Barron.

WINOKUR, L.—An unusual *Vanessa atalanta* (L.) with reduced extent of the hindwing red band and lacking the usual white lunules, these being replaced by a hairline black border. This specimen was captured on *Buddleia* in a garden bordering the west side of Stonegate Road, north Leeds, vii.1980. A female specimen of *Anthocharis cardamines* (L.) ab. *bilineata* Mezger with additional black markings under the discoidal spots on the underside. This was produced by chilling the pre-pupating larva and pupa for 24 hours at 2–5°C. Three other similarly treated pupae produced two typical females and a typical male. The specimen emerged on 24.iii.2000, from larvae found in the garden of the exhibitor's landlady at Parklands Close, Chandlers Ford, Hants., feeding on cultivated Honesty.

BRITISH MACROLEPIDOPTERA

Another poor year resulted in a low number of exhibits, although a few new vice-county records and some notable migrants were shown. An innovative feature of this year's exhibition was the introduction of a theme—garden insects. Exhibits under this heading included such moths as: *Anticollis sparsata* (Treit.), *Ptilophora plumigera* (D. & S.), *Eilema sororcula* (Hufn.), *Atolmis rubricollis* (L.), *Agrotis vestigialis* (Hufn.), *Noctua orbona* (Hufn.), *Mythimna turca* (L.), *Mythimna putrescens* (Hüb.), *Conistra rubiginea* (D. & S.), and *Archanara algae* (Esp.)—ample evidence, if it were needed, of the value of regular trapping and recording at sites that would not ordinarily be worked.

BENHS CONSERVATION WORKING GROUP—An exhibit showing a single specimen of *Oria musculosa* (Hüb.), believed to be the only example seen in 2000. This moth is a Biodiversity Action Plan species being studied by members of this society. Additional records and thoughts on its decline are sought.

BLAND, K. P.—Moths from Scotland: *Zygaena lonicerae latomarginata* Tutt, Cove Harbour, Berwick (NT7871), 16.vii.2000—new to south-east Scotland; *Lycia lapponaria scotica* Harrison, Carn an t-Sionnaich, Fealar, E. Perth (NO0075), reared from larvae collected on 14.vii.1999 at over 600 m.

BROWN, D.—Aberrations of: *Opisthagraptis luteolata* (L.), Brimstone Moth, Greatstone, E. Kent, 15.viii.2000; *Biston betularia* (L.), Witherslack, Westmorland, 28.v.2000 (Plate 2, Fig. 1); and *Epirrhoe alternata alternata* (Müll.), Hampton Wood, Warwick, 17.vii.1999 (R. Bliss) (Plate 2, Fig. 4). *Euplagia quadripunctaria* (Poda), Winchelsea Beach, E. Sussex, 14.viii.2000. *Sabra harpagula* (Esp.), Winchelsea Beach, E. Sussex, 26.viii.2000—in company of many migrant species. *Eupithecia abietaria* (Goeze), Charlecote, Warwick, 17.vi.2000—presumed migrant.

BUTTERFLY CONSERVATION—see Green & Parsons.

CHESMORE, D.—Moths from S.E. Yorks., including: *Rhodometra sacraria* (L.), Eastington Ponds, 22.viii.2000; *Acasis viretata* (Hüb.), Holme-on-Spalding Moor, 22.vii.2000; *Deileptenia ribeata* (Cl.), Allerthorpe Common, 15.vii.2000, and Millington Woods, 8.viii.2000; *Agrotis vestigialis* (Hufn.), Holme-on-Spalding Moor,

25.vii and 6.viii.2000; *Rhyacia simulans* (Hufn.), Holme-on-Spalding Moor, 3.vii.2000; *Dypterygia scabriuscula* (L.), Holme-on-Spalding Moor, 13.vi.2000; *Protodeltote pygarga* (Hufn.), Skipwith Common, 8.vii.2000.

CLANCY, S.—Examples of moths collected on the Burren, Ireland between 28.v and 4.vi.2000, including: *Zygaena purpuralis sabulosa* Tremewan, *Odontoglyphos dunetata hibernica* Forder, *Heuaris tityus* (L.), *Setina irrorella* (L.), *Hadena caesia maianii* (Gregson), *Acronicta euphorbiae uyricae* Guen., and *Photodes captivuncula tineta* (Kane). Moths from the Dungeness area, E. Kent: *Cyclophora puppillaria* (Hüb.), New Romney, 21.vi.2000; *Lithosia quadra* (L.), Littlestone, 15.vi, 20.vi and 18.ix.2000; *Trigonophora flammea* (Esp.), Dungeness, 29.ix.2000; *Cryphia algae* (Fab.), Greatstone, 12.viii.2000; *Trichoplusia vi* (Hüb.), Dungeness, 7.ix.2000 and Lydd, 11.ix.2000; and *Herminia tarsicrinalis* (Knoch), Dungeness, 18.vi.2000—new to Kent. Aberrations including: *Tyria jacobaeae* (L.), ab. *flavescens* Thierry-Mieg (Plate 2, Fig. 3); and *Mesapauca secalis* (L.), ab. *lilacina* Warren; *Euproctis similis* (Fuess.) (Plate 2, Fig. 2).

CLARKE, J.—Some moths from Scotland, April 2000, including: *Brachionychia nubeculosa* (Esp.)—Coylumbridge, Easternness, 6.iv; Kincaig, Easternness, 6–7.iv; and Insh, Easternness, 7.iv—together with photographs of adult, ova and larvae; *Lycia lapponaria scotica* (Harrison), Struan-Blairfettie, Mid Perth, 1.iv, a large number sitting on stems of *Myrica gale* (bog myrtle) and other plants. Garden Lepidoptera from Crawley Down, E. Sussex, including: *Xanthorhoe birivata* (Borkh.), 6.viii.2000; *Hypena crassalis* (Fab.), 25.vi.2000; *Eupithecia expallidata* Doubl., 13.viii.2000; *Auticollix sparsata* (Treit.), 20.vii.2000; and the following migrants: *Rhodometra sacraria* (L.), 24 and 26.viii.2000; *Mythimna albipuncta* (D. & S.), 4.viii.2000; *M. vitellina* (Hüb.), 25.ix.2000; *M. loreyi* (Dup.), 14.x.2000; and *Spodoptera exigua* (Hüb.), 28.vi.2000.

DOBSON, A. H.—A selection of moths from Broughton Down, S. Hants: *Trichopteryx polycoumata* (D. & S.), *Scotopteryx bipunctaria cretata* (Prout), *Eupithecia valerianata* (Hüb.), and *E. distinctaria constrictata* Guen.—new to VC11. *Eupithecia phoeniceata* (Ramb.), Kempshott, N. Hants, 23.vii.2000—furthest inland Hampshire record. An aberration of *Rhodometra sacraria* (L.), Stourcross, S. Devon, 9.viii.2000 (Plate 2, Fig. 7).

DOBSON, J.—*Synanthedon myopaeformis* (Borkh.), Harrow, Middx. (TQ164886), 14.vi.1997.

EZARD, A. S.—Unusual forms of common moths from Rudston, S.E. Yorks.: *Atelthia centrugo* (Haw.), 11.ix.2000; *Orthosia gothica* (L.), 29.iv.1997; *Arctia caja* (L.), 2.viii.1998; *Agrotis exclamationis* (L.), 13.vii.1995.

GARDNER, A. F. J.—*Cyclophora puppillaria* (Hüb.), Cadgwith, W. Cornwall, 2.xi.1999. *Mythimna loreyi* (Dup.), Charlecote, Warwick, 23.x.2000—new to VC38.

GREEN, D. G. & PARSONS, M. S.—On behalf of Butterfly Conservation, a poster display presenting a brief summary of twenty-four Butterfly Conservation co-ordinated projects carried out during 2000 designed to contribute towards the conservation of UK Biodiversity Action Plan moths. These were carried out with contributory funding from English Nature, the Hampshire and Isle of Wight Wildlife Trust, the Forestry Commission, and the Countryside Council for Wales. Projects featured included: tree-canopy studies to investigate the larval requirements of *Catocala sponsa* (L.), and *Catocala promissa* (D. & S.), conservation work for *Lycia zonaria britannica* (Harrison), and investigation of the effects of coppicing on *Rheumaptera hastata* (L.), *Minoa murinata* (Scop.), and *Hydrelia sylvata* (D. & S.).

HAYWARD, R.—Some giant moths from a Slough, Bucks., garden: *Mimas tiliae* (L.), 29.vi.2000—wingspan 90 mm (usual range 70–80 mm, Skinner (1984));

Smerinthus ocellata (L.), 13.vii.1996—100mm (75–95 mm); *Laothoe populi* (L.), 27.vi.1990—107 mm (72–92 mm). Moths from the same garden in 2000 including: *Eilema sororcula* (Hufn.), 27.vi; and *Earias clorana* (L.), 25.vi. An overlooked specimen of *Luperina dumerilii* (Dup.), Portsmouth, S. Hants, 27.viii.1964—placed as a pale form of *L. testacea* (D. & S.), in the exhibitor's collection until recently spotted by P. Cordell.

HEPPENSTALL, R. I.—Moths from the Doncaster area, S.W. Yorks.: *Cryphia domestica* (Hufn.), Rossington (SK628985), 28.vii.2000—colour variety; *Hadena compta* (D. & S.), Rossington (SK628985), 28.vi and 12.vii.2000—a very recent arrival in Yorkshire; *Synanthedon formicaeformis* (Esp.), Potteric Carr Nature Reserve (SE5900), 4.vii.2000—very few records for VC63; *Sideridis albicolon* (Hüb.), Rossington (SK628985), 31.v.2000—second record from the site suggesting the possible presence of an inland colony; *Rhodometra sacraria* (L.), Rossington (SK628985), 21.vi and 30.viii.2000.

HONEY, M. R.—Moths new to the Natural History Museum Wildlife Garden (Middx.) in 2000: *Phalera bucephala* (L.), *Furcula bifida* (Brahm), Poplar and *Diaphora mendica* (Cl.).

HUMPHREY, D. A.—Examples of *Rheumaptera hastata* (L.), and ssp. *nigrescens* (Prout) from Corpach, Westernness, 2.vi.1995—a typical specimen and a brown variety; ssp. *hastata* (L.) from Dorset for comparison.

JENKINS, A.—A selection of moths including: *Hypena rostralis* (L.), reared from Kent larvae; *Xanthia gilvago* (D. & S.), reared from Kent larvae; *Xanthorhoe biriviata* (Borkh.), reared from Surrey larvae; *Luperina nickerlii gueneei* Doubl., from North Wales. From Scotland: *Aporophyla lueneburgensis* (Freyer), *Enugnorisma depuncta* (L.), *Diarsia dahlia* (Hüb.), *Anarta melanopa* (Thunb.), and *Macaria carbonaria* (Cl.).

KEMP, R.—An aberration of *Autographa gamma* (L.), lacking usual coloration, Shabbington Wood, Bucks, 4.ix.2000 (Plate 2, Fig. 15).

KNILL-JONES, S.A.—Moths from Freshwater, Isle of Wight, including: *Euplagia quadripunctaria* Poda ab. *lutescens* Stdgr., 20.viii.2000; *Pachycnemia hippocastanaria* (Hüb.), 10.viii.2000; *Eupithecia expallidata* (Doubl.), 21.vii.2000; *Spodoptera exigua* (Hüb.), 19.vi and 20.viii.2000; *Heliothis peltigera* (D. & S.), 27.vi.2000; *Lithosia quadra* (L.), 18.ix.2000; *Mythimna vitellina* (Hüb.), 23.ix.2000; *Orthonama obstipata* (Fab.), Gem, 2.x.2000; *Rhodometra sacraria* (L.), 26.viii.2000; *Helicoverpa armigera* (Hüb.), 26.ix.2000; *Mythimna unipuncta* (Haw.), 18.ix and 2.x.2000; and bred series of *Trigonophora flammea* (Esp.), and an orange form of *Idaea aversata* (L.).

MCCORMICK, R. F.—*Zygaena trifolii* (Esp.) ssp. *decreta* Ver.—an example with the spots confluent, Belstone, N. Devon, 24.vi.2000. Garden moths from Teignmouth, S. Devon: *Eupithecia venosata* (Fab.), 9.vi.2000; *Abraxas sylvata* (Scop.), 28.vii.2000; *Lithosia quadra* (L.), 3.vii.2000; *Mythimna putrescens* (Hüb.), 24.vii.2000. An example of *Cerastis leucographa* (D. & S.), from Great Torrington, N. Devon, 1.iv.2000. *Luperina nickerlii* (Freyer) ssp. *gueneei* Doubl., Point of Ayr, Flint, 23.viii.2000. An exhibit showing representative examples of moth species that are extremely rare or have not been recently recorded from Devon, including: *Synanthedon myopaeformis* (Borkh.)—last recorded as exuviae in 1965; *Idaea degeneraria* (Hüb.)—recorded from Torquay between 1897 and 1927, but an example from Slapton Ley on 11.ix.1999 is considered migrant; *Phibalapteryx virgata* (Hufn.)—recorded from Exmouth in the nineteenth century, one from Torquay, 14.viii.1989, possibly a vagrant; *Rheumaptera hastata* (L.)—not seen since 1970; *Macaria notata* (L.)—only two recent records reliably separated from *M. alternaria* (D. & S.), *Dyscia fagaria* (Thunb.)—a single recent record; *Hemaris fuciformis* (L.)—recorded recently from only a single site; *Actebia praecox* (L.)—recently recorded,

without vouchers, from a single site; *Eugnorisma depuncta* (L.)—a single modern record; *Papestra biren* (Goeze)—a single modern record; *Hecatera dysodea* (D. & S.)—several sites mentioned in the VCH but not in MBGBI 9; *Jodia croceago* (D. & S.)—a single recent record of a corpse in a spider's web, not retained; *Xanthia gilvago* (D. & S.)—not seen since 1965; *Dypterygia scabriuscula* (L.)—a single modern record; *Cosmua diffinis* (L.)—not seen since 1959; and *Apanaea sublustris* (Esp.)—a single modern record.

NASH, S.—Migrant moths from Fernham, Berks: *Rhodometra sacraria* (L.), 25 between 24.vi and 14.x.2000; *Mythimna unipuncta* (Haw.), 15.x and 22.x.2000; *Spodoptera exigua* (Hüb.), 12 between 19.vi and 4.ix.2000; *Heliothis peltigera* (D. & S.), 10 between 19.vi and 11.ix.2000; *Eublenina ostrina* (Hüb.), *E. parva* (Hüb.), both on 28.vi.2000. Resident species from Fernham, Berks: *Elaphria venustula* (Hüb.), 29.vi.2000; *Atolnis rubricollis* (L.), 28.vi.2000; *Hypenodes humidalis* Doubl., 5.viii.2000; and *Chloroclysta siterata* (Hufn.), 1.xi.2000. Moths from Coverack and the Cot Valley, W. Cornwall, 24.ix–7.x.2000: *Rhodometra sacraria* (L.), *Orthonama obstipata* (Fab.), *Agrius convolvuli* (L.), *Xestia castanea* (Esp.), *Xestia agathina* (Dup.), *Mythimna loreyi* (Dup.), *M. unipuncta* (Haw.), *M. vitellina* (Hüb.), and *Helicoverpa armigera* (Hüb.). Moths from Durlston Country Park, Dorset, in 2000: *Orthonama obstipata* (Fab.), *Agrius convolvuli* (L.), *Mythimna unipuncta* (Haw.), *M. albipuncta* (D. & S.), *Spodoptera exigua* (Hüb.), *Helicoverpa armigera* (Hüb.), and *Earias clorana* (L.).

PARSONS, M. S.—An example of *Hyles livornica* (Esp.), from Hilcot End, E. Gloucs., 28.vi.2000. Garden moths from Walditch, Dorset: *Lithosia quadra* (L.), 29.vii.2000—one of three noted in 2000; *Euplagia quadripunctaria* (Poda), 31.vii, 19. and 22.viii.2000.

PHILLIPS, J. W.—Moths reared or captured in 1999/2000, including: *Mythimna albipuncta* (D. & S.), Northney, S. Hants; *Thera cupressata* (Geyer), Northney, S. Hants; *Eupithecia millefoliata* Rössl., Gosport, S. Hants; *Hydrelia sylvata* (D. & S.), and its form *goodwini* Bankes from W. Sussex.

PICKLES, A. J.—A dark specimen of *Helicoverpa armigera* (Hüb.), Bridgnorth, Salop, 29.ix.2000. Garden moths from Lymington, S. Hants, recorded in the last 25 years, including: *Thera cupressata* (Geyer), *Couistra rubiginea* (D. & S.), *Xestia agathina* (Dup.), *Orthonama vittata* (Borkh.), *Chilodes maritimus* (Tausch.), and *Mythimna favicolor* (Barr.).

PLANT, C. W.—A melanic form of *Lyniantria monacha* (L.), from the Broxbourne Wood complex, Herts. During 2000 around 40% of males captured at light were melanic; females are also affected but are less frequently found. Three males, 5.viii.2000, were shown together with typical examples from other sites (Plate 2, Fig. 14). Aberrations of other species: *Mesapamea* sp. [probably *secalis* (L.)] ab. *lilacina* Warren, Takeley, N. Essex, 6.viii.2000 (G. Sell); *Charanyca trigrammica* (Hufn.)—upper surface suffused with dark grey-brown, Oxenbourne, S. Hants, 11.vi.2000; *Lomaspilis marginata* (L.)—showing great reduction in the black markings, Wilstone Reservoir, Herts., 19.viii.2000.

REID, I.—A specimen of *Anticloris eriphia* (Fab.), the so-called “Banana Stowaway”, found in a consignment of bananas from Guadeloupe.

ROGERS, T.—An extreme leucistic example of *Hydriomena furcata* (Thunb.), Eswick, Zetland, 4.ix.2000. *Agrius convolvuli* (L.), Freshwater, Isle of Wight, 30.ix.2000.

ROUSE, T.—Migrant moths from E. Kent and Dorset, including: *Lithosia quadra* (L.), Folkestone, 22.ix.2000; *Mythimna vitellina* (Hüb.), Folkestone Warren, 30.ix.2000; *Mythimna loreyi* (Dup.), Durlston Head, 14.x.2000; *Spodoptera exigua*

(Hüb.), Densole, 2.vii and 1.viii.2000; *Heliothis arnigera* (Hüb.), Densole, 23 and 29.ix.2000. Aberrations including: *Hylaea fasciaria* (L.), ab. *prasinaria* D. & S., Densole, E. Kent, 20.vii.2000; *Melanthia procellata* (D. & S.), ab. *nigrapicata* Cock. from Hythe, E. Kent, 20.v.2000 and from Folkestone, E. Kent, 7.ix.2000 (Plate 2, Fig. 5), *Charanyca trigrammica* (Hufn.), Treble Lines, an extreme aberration, Sidbury Hill, S. Wilts., 12.vi.2000, with typical form and ab. *bilinea* Haw. for comparison.

SALISBURY, A.—Moths from the Royal Horticultural Society's Garden, Wisley, Surrey (TQ063591): *Conistra rubiginea* (D. & S.), iv.2000; *Idaea rusticata* (D. & S.), vii–viii.1999–2000.

SCANES, J.—Garden moths from Tolworth, Surrey. From a total of 253 species recorded in the last 20 years, 197 were shown, including examples of: *Mythimna turca* (L.), *Archanaara dissoluta* (Treits.), *Agrotis vestigialis* (Hufn.), and *Cosmia affinis* (L.).

SIMPSON, A. N. B.—An example of *Eupithecia egenaria* H.-S., Shrawley Wood, Worcs, 3.vi.2000—new to VC37.

SIMS, I.—Two species of sesiid: *Sesia apiformis* (Cl.), Medmenham, Bucks, at rest on poplar trunks, 28.vi and 5.vii.2000; *Sesia beubeciformis* (Hüb.), Lower Earley, Berks, reared from a willow stump collected 4.vi.2000. *Archanaara geminipuncta* (Haw.), Medmenham, Bucks, reared from larvae in *Phragmites communis* (common reed), found on 11.vi.2000. *Xestia rhomboidea* (Esp.), Bix Bottom, Oxon. 12.viii.2000.

SKINNER, B.—Moths from Ireland: *Archanaara algae* (Esp.), a dark race reared from pupae collected from *Schoenoplectus lacustris* (common club-rush) at Lough Tarmon, Clare, August 2000; light and dark forms of *Aporophylla luenenburgensis* (Freyer), Leagh South, S.E. Galway, August 2000; a dark aberration of *Luperina testacea* (D. & S.), Murlough, Down, 9.viii.2000 (Plate 2, Fig. 6).

SOFTLY, R. A.—Garden moths from Hampstead, Middx. A chart showing the flight period and abundance of the most abundant moths recorded from an urban garden in 2000.

SPALDING, A.—Examples of three subspecies of *Luperina nickerlii* (Freyer), Sandhill Rustic, from Cornwall, Wales and Ireland. *Lygephila cracca* (D. & S.), from two new sites on the north coast of Cornwall and Devon found in 2000. *Hadena albiniacula* (Borkh.), White Spot, from a new site at East Lulworth, Dorset, 12.v.1999. Aberrations of: *Aplocera plagiata* (L.), *Agrotis ripae* (Hüb.), and *Mythimna ferrago* (Fab.) (Plate 2, Fig. 9) from Cornwall.

STERLING, P.—On behalf of J. Astley, *Costaconvexa polygrammata* (Borkh.), Closworth, S. Somerset, 29.vi.2000—one of two specimens taken in Britain in 2000, the first records for about 150 years (Plate 2, Fig. 12).

WARING, P.—Photographs of the habitat of a colony of *Tyta luctuosa* (D. & S.), near Peterborough.

WEDD, D.—Garden moths from Henley-on-Thames, Oxon, including: *Ptilophora plumigera* (D. & S.), *Ptilodon cucullina* (D. & S.), *Hypena rostralis* (L.), and *Archanaara algae* (Esp.). From the Henley area: *Heliothis virescens* (Hufn.), Marbled Clover, Fairmile, 9.vi.2000; *Phibalapteryx virgata* (Hufn.), Bix. Moths from the Scottish Highlands, including: *Endronis versicolora* (L.), *Xestia alpicola alpina* (Humph. & Westw.), and *Drepana falcata scotica* Bytinski-Salz, Pebble Hook-tip. An extreme aberration of *Epirrhoe alternata* (Müll.), Henley, 18.vii.2000 (Plate 2, Fig. 8). From the Channel Islands: *Pseudoterpna coronillaria* (Hüb.)—new to CI; *Clostera anachoreta* (D. & S.), Jersey, 8.viii.2000—third CI record; *Cucullia absinthii* (L.), Wormwood Shark, Jersey, 5.viii.2000—third CI record; *Cryphia algae* (Fab.), Tree-lichen Beauty, Jersey, August; *Agrotis crassa* (Hüb.), Great Dart, melanic, Grouville, Jersey, 10.viii.2000.

WILSON, D.—*Rivula sericealis* (Scop.), Straw Dot, a dark specimen, Wicken, Cambs., 10.ix.2000. *Autographa gamma* (L.), a dark specimen with reduced “Y” markings, Wicken, Cambs., 12.v.2000. *Chilodes maritimus* (Tausch.) ab. *hipmuctata* Haw., Wicken Fen, Cambs., 17.vii.2000. *Athetis pallustris* (Hüb.), bred examples and photographs of ova, larvae and adults from Lincolnshire stock.

YOUNG, D.—Garden moths from Tunstall, E. Suffolk. Following a move to Suffolk in June 2000, the following species were recorded: *Polymixis lichenea* (Hüb.), *Meganola albula* (D. & S.), *Idaea rusticata atrosignaria* Lempke, *Cucullia absinthii* (L.), *C. asteris* (D. & S.), *Spilosoma urticae* (Esp.), *Noctua orbona* (Hufn.), *Xestia rhomboidea* (Esp.), and *Scopula rubiginata* (Hufn.). The following migrants were also noted: *Agrius convolvuli* (L.), *Helicoverpa armigera* (Hüb.), and *Mythimna albipuncta* (D. & S.)—over 100 examples between July and October, strongly suggestive of local breeding.

BRITISH MICROLEPIDOPTERA

[NOMENCLATURE FOLLOWS THE CHECKLIST OF BRADLEY 2000]

BEAUMONT, H. E.—*Micropterix tunbergella* (Fab.), Stainton Little Wood, Doncaster, SW Yorks. (VC63), swept from flowers of oak 24.v.2000. *Coleophora taeniipennella* H.-S., Stainton Little Wood, SW Yorks., flying amongst *Juncus* 20.vi.2000 (two previous Yorkshire records). *Gelechia rhombella* (D. & S.), Anston Stones Wood, SW Yorks., two at MV light 25.vii.2000 (few recent Yorkshire records). *Sophronia semicostella* (Hüb.), Allerthorpe Common, Pocklington, SE Yorks (VC61), several at MV light 15.vii.2000. *Anarsia spartiella* (Schr.), Allerthorpe Common, SE Yorks., 15.vii.2000. *Cochylis hybridella* (Hüb.), Kiplingcotes chalk pit, Market Weighton, SE Yorks (VC61), 28.vii.2000 (the first Yorkshire record for 50 years). *Cacoecimorpha prombana* (Hüb.), West Melton, Rotherham, SW Yorks. (VC63), 6.vi.2000—this invading moth is now recorded frequently in the south of Yorkshire as far north as York. *Eana osseana* (Scop.), Kiplingcotes chalk pit, SE Yorks., 28.vii.2000 (although occurring widely in the four other Yorkshire vice-counties this appears to be only the second record from VC61). *Panmiene aurita* Raz., Denaby Ings Nature Reserve, Mexborough, SW Yorks., quite common at MV light 11.viii.2000—there are only two previous Yorkshire records, both of single moths.

BLAND, K. P.—*Aethes smeathmanniana* (Fab.), Steeple View, Essex (VC18), reared from seedheads of *Artemisia vulgaris* collected 14.iv.2000, emerged 7.vi.2000. Apparently an unrecorded foodplant.

CLANCY, S.—Burren, Co. Clare. Species recorded between 28.v & 4.vi.2000: *Pyrausta sanguinalis* (L.), *Anania fimbriata* (Ström), *Paratalanta pandalis* (Hüb.), *Platyptilia tesseradactyla* (L.). Dungeness area, East Kent (VC15): *Haimbachia cicatricella* (Hüb.), Dungeness, 20 & 25.vii.2000, Lydd, 29.vii.2000; *Sciota hostilis* (Steph), Orlestone, 8.vi.2000; *Vitula biviella* (Zell.), Lydd area, two of 13 examples recorded during 2000. *Agriphila tristella* (D. & S.), a bilateral specimen, probably a gynandromorph; *Agriphila geniculata* (Haw.), a pale unicolorous example; *Cryptoblabes bistriga* (Haw.), a specimen lacking the whitish postmedian line.

COOK, R. R.—*Pediasia aridella* (Thunb.), Ferrybridge, Dorset (VC9), very common to MV light 4.viii.2000; *Dioryctria schuetzeella* Fuchs, Orlestone Forest, Kent, 5.vii.2000; *Udea decrepitalis* (H.-S.), Loch Achaig, Inverness, June 2000; *Nephtopterix angustella* (Hüb.), Dartford Heath, Kent, reared from spindle berries collected 6.ix.1999; *Donacaula forficella* (Thunb.), Orlestone Forest, Kent, two

typical specimens taken July 2000 and two melanic specimens from Shatlford, Hampshire.

DOBSON, A. H.—*Scoparia ancipitella* (de la Harpe), Haldon, Devon (VC3) in deciduous wood 28.vi & 7.viii.1962. (First Devon record). *Euzophera cinerosella* (Zell.), Starcross, Devon (VC3), in Rothamsted trap 18.vi.1996. (First 20th century Devon record). From Broughton Down reserve, Hampshire (VC11), *Paratalanta pandalis* (Hüb.), 16.viii.2000, *Mecyna flavalis flaviculalis* Carad., 26.vii.2000, *Homoeosoma nebulella* (D. & S.), in heath trap 28.vi.2000 (fourth VC11 record). *Pediasia aridella* (Thunb.), Hinchleslea Moor, New Forest (VC11), at MV light 21.vii.2000, others in flight over heath. (First New Forest record of this saltern species).

ELLIOTT, B.—*Argyresthia trifasciata* Staud., Letchworth, Herts., flying in great abundance 20.v.2000 around a large specimen shrub of *Juniperus media pfitzeriana* × *aurea*. The shrub had been subject to occasional trimming giving an abundance of new tender shoots which were mostly browned at their tips by heavy larval attack. Six other species of *Cupressus* and *Juniperus* in the vicinity were totally unaffected. *Yponomeuta malinellus* Zell. and *Yponomeuta padella* (L.), Portsdown Hill, Hampshire, bred from adjoining apple and hawthorn bushes and showing distinct facies and emergence dates in this area. *Depressaria pimpinellae* Zell., Winchester, Hampshire, reared ex larval spinings on *Pimpinella saxifraga* found 20.vii.2000. *Psamathocrita argentella* Pier. & Metc., Thorney Island, West Sussex, locally common amongst *Agropyron pungens* 3.vii.2000. *Acleris comariana* (Lien. & Zell.), Emer Bog, Hampshire, common in the evening around *Potentilla palustris* 13.ix.2000. *Pammene argyrana* (Hüb.), Chandler's Ford, Hampshire, not uncommon in garden MV trap in 1999, none seen in 2000. *Grapholita tenebrosana* (Dup.), Thorney Island, West Sussex, bred from rose hips collected late ix.1999. *Grapholita funebrana* (Treits.), Stonelees, Kent, bred from sloes collected in September 1999. *Grapholita lunulana* (D. & S.), Askham Bryan, Yorks., moths disturbed from roadside *Vicia* 30.v.2000. *Cydia servillana* (Dup.), Ampfield, Hampshire, bred from stem of *Salix cinerea* (exhibited) 25.ii.2000.

HARPER, M. W.—The genus *Nematopogon* Zell. (Incurvariidae) in Great Britain and Ireland, excepting *N. swammerdamella* (L.). Included were the widespread *N. schwarziellus* (Zell.), and the more local *N. metaxella* (Hüb.) which occurs in damp woodland in England & Ireland but is not recorded from Scotland. *N. magna* (Zell.) is very local amongst *Vaccinium myrtillus*, especially in Scotland, but has also been found recently amongst hazel stands in the Burren limestone of Co. Clare. The form there differs from the moorland form from Scotland. *N. pilella* (D. & S.) appears to be local—a short series exhibited was from *Vaccinium myrtillus* and *Calluna* upland heathland in Herefordshire.

HART, C.—*Nascia ciliaris* (Hüb.), Buckland, Surrey (VC 17), date of capture not stated, a specimen with pale ground colour and darker markings and with distinct sub-marginal line on the hindwings.

HECKFORD, R.J.—*Kessleria saxifragae* (Staint.), Sròn Dha Mhurchaidh, Mid Perth (VC88), larva on *Saxifraga hypnoides* 11.vi.2000, moth bred 24.vi.2000, a previously unrecorded foodplant. *Ochsenheimeria urella* (F. v. R.) and cocoon, Trowlesworthy Warren, South Devon (VC3), cocoon found 28.vi.2000, moth emerged 22.vii.2000, a species that is rarely reared. *Acrolepiopsis assectella* (Zell.), Plympton, South Devon (VC3), at light 12 & 25.viii.2000, the most westerly British record to date. *Coleophora pappiferella* Hofm., Morrone Birkwood NNR, South Aberdeen (VC92), two 12.vi.2000 (New to Britain). *Exaeretia ciniflonella* (Lien. & Zell.), Crathie, South Aberdeen (VC92) (with Dr. M.R. Young), twelve specimens

disturbed between 16.00 and 17.00 hrs., eleven from trunks of birch and one from branches of juniper. The only previous record from VC92, also from Crathie, is of one on 5.x.1986. During the last 45 years only five specimens, including the 1986 example, have been recorded in the British Isles. *Bryotropha sinuilis* (Staint.), Devil's Elbow, Glen Shee, East Perth (VC89), pupa under unidentified moss on boulder 16.vi.2000, moth bred 27.vi.2000. *Scrobipalpa uurinella* (H.-S.), Morrone Birkwood NNR, one of four specimens seen 12.vi.2000. New to VC92, being the third Scottish locality and the first inland. *Crambus uliginosellus* Zell., Colaton Raleigh Common, South Devon (VC3), larvae 25.v.2000, each in a strong silken tube in the moss *Caupylimum stellatum* var. *stellatum*, moths bred 23.vi & 2.vii.2000. *Scoparia ambigualis* (Treits.) and cocoon, Trowlesworthy Warren, (VC3), larvae 28.vi.2000, moths bred 5 & 7.viii.2000; larvae on the ground amongst dead fragments of *Pteridium aquilinum* and detritus, an inch or so beneath the moss *Plenrozium schreberi*. Larvae of this widespread species have only been found a few times in the British Isles, to date only in winter/early spring, never previously in summer. *Aponyelois ceratoniae* (Zell.), Marsh Mills, Plymouth, South Devon (VC3), bred from a pomegranate (*Punica granatum*) bought at a local supermarket 6.xi.1999, moths bred 20 & 21.i.2000. New to Devon and a previously unrecorded imported foodplant in the British Isles.

HENWOOD, B. P.—*Phyllonorycter leucographella* (Zell.), Abbotskerswell, South Devon (VC3), bred from mines on *Pyraecanthia* collected 23.iii.2000. (First Devon record). *Phyllonorycter platani* (Staud.), Trago Mills car park, Newton Abbot, South Devon (VC3), bred from mines on *Platanus* collected October 1999. (First Devon record). *Cochylis molliculana* Zell., Berry Head, South Devon (VC3), at MV light 16.ix.2000 (second Devon record).

HEPPENSTALL, R. I.—Doncaster area (VC63). *Caloptilia azaleella* (Brants), Rossington, 9.ix.2000 (New to Yorkshire). *Acrocercops broughtiardella* (Fab.), Sprotbrough Flash, 12.vii.2000; Rossington, 12.viii.2000; Potteric Carr Nature Reserve, reared 9.vii.2000. First reared from Potteric Carr in 1999, the first Yorkshire record since the mid 19th century. *Argyresthia trifasciata* Staud., Rossington, four 14 & 15.v.2000 (New to Yorkshire). *Ypsolopha sylvella* (L.), Rossington, 10.ix.2000. *Elachista triatonea* (Haw.), Lindrick Quarry, 11.vii.2000. *Biselachista albidella* (Nyl.), Rossington, 28.vii.2000 (third VC63 record). *Isophrictis striatella* (D. & S.), Rossington, 2.viii.2000 (New to Yorkshire). *Mompha jurassicella* (Frey), Potteric Carr Nature Reserve, 8.x.2000 (New to Yorkshire). *Cnephasia conspersana* Dougl., Rossington, 16.viii.2000; *Hedya ochroleucana* (Fröl.), Rossington, 21.vii.2000 (first VC63 record). *Endotricha flammealis* (D. & S.), Rossington, 29.vii.2000, first recorded in 1998, further records in 1998 and 2000 suggest that it is becoming established in the area. *Galleria mellonella* (L.), Rossington, 13.ix.2000, there are few Yorkshire records. *Acrobasis consociella* (Hüb.), Rossington, 16.viii.2000, first recorded in 1999, the first VC63 record since the mid 19th century. *Stenoptilia zophodactylus* (Dup.), Anston Stones Wood, 5.vii.2000; Potteric Carr Nature Reserve, 24.viii.2000 (first VC63 records since 1921). *Euleioptilus carphodactyla* (Hüb.), Potteric Carr Nature Reserve, 4.vi.2000 & 20.viii.2000. (New to Yorkshire).

HONEY, M. R.—Species new to the Natural History Museum Wildlife Garden in 2000 including *Prays citri* Mill., new to Britain, and *Aristotelia ericinella* (Zell.), *Pannonea obscurana* (Steph.) & *Schoenobius gigantella* (D. & S.), these three apparently new to Middlesex (VC21).

KNILL-JONES, S. A.—Microlepidoptera from Freshwater, Isle of Wight (VC10), including *Crociosema plebejana* Zell., 31.viii & 6.ix.2000; *Evergestis limbata* (L.), 14 & 29.vii.2000; *Ostrinia nubilalis* (Hüb.), 22.ix.2000; *Notoplula noctuella* (D. & S.), 3.ii.2000, an early date.

LANGMAID, J. R.—*Trifurcula beirnei* Pupl., Southsea, Hampshire (VC11), a specimen taken at MV light 20.viii.2000. Last recorded in Britain by W. Fassnidge at Southampton in August 1935. *Cosmioxys stabilella* (Staint.), Portsmouth, Hampshire (VC11), a specimen taken by Mr. I. R. Thirlwell at MV light 5.viii.2000. (New to Hampshire).

MANNING, D. V.—*Dichomeris ustalella* (Fab.), Tintern, Monmouthshire (VC35), to MV light 17.vi.2000 (leg. P. D. Sharpe).

NASH, S.—Fernham, nr. Faringdon (VC22): *Ostrinia nubilalis* (Hüb.), two 6.vii.2000 & 24.vii.2000; *Phlyctaea perlucidalis* (Hüb.), one of 15 specimens recorded during 2000, the first since 1986. *Palpita vitrealis* (Rossi), Durlston Country Park, Dorset (VC9), 8.x.2000; Pednavounder, Cornwall, 26.ix.2000; St Just, Cornwall, 26.ix.2000. Garden theme exhibit: a selection of pyrales taken at Fernham between 1983 & 2000.

PARSONS, M. S.—Dorset (VC9): *Zeiraphera ratzeburgiana* (Ratz.), Walditch, 15.vii.2000; *Piniophila bifasciana* (Haw.), Upton Heath, 15.vii.2000; *Cydia anplana* (Hüb.), Walditch, 25.viii.2000; *Eudonia lineola* (Curt.), Portland, ex larvae 18.v.2000; *Eudonia mercurella* f. *portlandica* Curt., Portland, 5.viii.2000; *Amblyptilia acanthadactyla* (Hüb.), Walditch, 26.viii.2000; *Amblyptilia punctidactyla* (Haw.), Walditch, 24.viii.2000. South Hampshire (VC11): *Scythris eupetrella* Karsh. & Neil., The Bench, New Forest, ex larvae 3.v.2000. East Sussex (VC14): *Collicularia microgrammana* (Guen.), Holywell, Eastbourne, 5.vii.2000.

PICKLES, A. J.—Lymington, Hampshire (VC11): *Udea fulvalis* (Hüb.) and *Evergestis linubata* (L.), both taken 8.viii.2000.

SIMS, I—*Opostega salaciella* (Treits.), Warburg Nature Reserve, Oxfordshire, at MV light 5.viii.2000. *Adela croesella* (Scop.), River Loddon, Lower Earley, Berkshire, in flight around ash 2.vi.2000. *Baukesia douglasii* (Staint.), Fareham, Hampshire, reared ex ova collected in hatched female cases by Mr. D. O'Keeffe 17.ii.1999. Hatched 28.iii.1999 and fed on lichen *Xanthoria parietina*, pupated November 1999. Males emerged 2.ii.2000, females 9.ii.2000 (adults & cases exhibited). *Phyllonorycter distentella* (Zell.), Thorndon Wood, East Kent, mines on oak collected by Mr. D. O'Keeffe on 6.x.1999 and supplied by Carlos Lopez Vaamonde, moths emerged 18.iii.2000. From Warburg Nature Reserve, Bix Bottom, Oxfordshire: *Ypsolopha nemorella* (L.), 5.viii.2000; *Ypsolopha scabrella* (L.), 12.viii.2000; *Ypsolopha sequella* (Cl.), 5.viii.2000. *Coleophora juncicolella* Staint., Hainault Forest, Chigwell Row, Essex, cases swept from *Calluna vulgaris* 10.iv.1999. *Coleophora peribenanderi* (Toll), River Loddon, Lower Earley, Berkshire, case on creeping thistle 31.v.2000, moth emerged 30.vi.2000. *Perittia obscurepunctella* (Staint.) (mines and parasite exhibited), Bear Wood, Wokingham, Berkshire, mines on *Lonicera periclymenum* 25.vi.2000, parasite emerged indoors 24.vii.2000. *Elachista poae* Staint. (adults & pupae), Medmenham, Marlow, Bucks., pupae in *Glyceria maxima* 29.iv.2000, males emerged 3.v.2000, females 7.v.2000. *Elachista albifrontella* (Hüb.) (adults & pupa), Medmenham, Marlow, Bucks., pupa in *Dactylis glomerata* 3.v.2000, emerged 25.v.2000; River Loddon, Lower Earley, Berks., female from *Dactylis glomerata* collected 1.v.2000, emerged 19.v.2000. *Elachista argentella* (Cl.) (adults & cocoons), River Loddon, Lower Earley, Berks., cocoons in *Dactylis glomerata* 1.v.2000, emerged 16.v.2000. *Elachista triatomea* (Haw.) (adult & pupa), River Loddon, Lower Earley, Berks., pupa in *Festuca ovina* 1.v.2000, emerged 16.v.2000. *Biselachista utonella* (Frey) (adults & pupae), Kennet & Avon Canal, Froxfield, Wiltshire (VC7), mining *Carex paniculata* 12.iv.2000, males emerged 15.v.2000, females 10.v.2000. ? *Biselachista albidella* (Nyl.) (adult & pupa), Kennet & Avon Canal, Froxfield, Wilts., mining *Carex paniculata* 12.iv.2000, emerged 13.v.2000.

STERLING, P. H.—*Ancylodes pallens* Rag., Gaunt's Common, Dorset (VC9), 5.i.1999 at UV light by P. Davey (New to Britain). Dorset (VC9). *Cydia lathyraea* (Hüb.), Burton Bradstock, bred from larva on *Genista tinctoria* collected 31.v.1999, emerged 14.iii.2000. *Cydia anplana* (Hüb.), Weymouth, at UV light 28.viii.2000; *Eudonia lineola* (Curt.), Tout Quarry, Portland, bred from larva on lichen *Xanthoria parietina* collected 16.iv.2000, emerged 29.vi.2000. *Bryotropha desertella* (Dougl.), Chesil Beach, bred from larva on moss *Syntrichia ruraliformis* collected 18.xii.1999, emerged 22.v.2000; *Bryotropha senectella* (Zell.), Black Venn, Charmouth, bred from larva on moss *Homalothecium lutescens* collected 16.iv.2000, emerged 17.v.2000.

WEDD, D.—*Aphonis zelleri* (Joann.), La Poulente dunes, Jersey, C.I., two 9.viii.2000 (second & third Channel Islands records).

WILSON, D.E.—*Udea ferrugalis* (Hüb.), Wicken, Cambridgeshire (VC29), two specimens taken at light in September 2000 both exhibiting a marked straw-yellow colour with distinctly marked hind wings.

FOREIGN LEPIDOPTERA

3RD BENHS EXPEDITION TO BELIZE, 2–22 DECEMBER 1998

1) HALL, N. M. Moths of Belize. Five drawers of provisionally identified material, two containing the Arctiidae and three containing the Pyralidae. These were selected from the twelve drawers of identified and two drawers of unidentified material held by NMH. The identified material is sorted into the systematic order of the BM(NH) main collection, and all records have been entered in a database.

Much remains to be done. Each specimen requires at least one more data label to hold information currently marked on the lids of the glass drawers: (i) the species (or genus), (ii) the corresponding BM drawer number, and (iii) (where necessary), the degree of confidence attached to the identification.

NMH also intends to produce a series of identification plates using digital imaging techniques. All identifications will then need checking.

(2) KEMP, R. J. Skippers (Hesperiidae) of Belize. This follows on from RJK's 1999 exhibit of non-Hesperid butterflies from the same expedition: *Urbanus dorantes* Stoll, *U. prouti* Evans, *Grais stigmaticus* Mabilie, *Autochton longipennis* Plotz, *Celaenorrhinus monartus* Plotz, *Agma asander* Hewitson, *Astrapses anaphus* Cramer, *A. alector hopfferi* Plotz, *Mylon menippus* F., *Paches loxus zonula* Mabilie, *Polygonus manueli* Bell & Comstock, *Panoquina fusina evansi* Freeman, *Panoquina* sp? (There is nothing similar at BMNH), *Ebrietas evanidus* Mabilie, *Helias phalaenoides cana* Evans, *Synapte silus pecta* Evans, *Belioptes arsalte* L. (male & female), *B. macaira* Reakirt (male & female), *Pyrgus oileus* Linnaeus (male & female). Thanks were accorded to Phil Ackery of the BMNH for access to the national reference collection.

AGASSIZ, D. J. L. A sample of specimens from East Africa: Yponomeutinae: *Yponomeuta morbilosellus* Zell., *Y. strigillatus* Zell., *Y. funigatus* Zell. (the only species previously recorded from Kenya) and nine species, probably undescribed, which are provisionally assigned to this subfamily. These with three further singletons were mostly from DJLA's garden in Kenya; they give an indication of how little is known of African microlepidoptera. Nymphulinae: *Argyraetis nandiualis* Hamps., *A. pervenustalis* Hamps., *A. tetropalis* Hamps., *A. uniuicilis* Hamps., *A. periopis* Hamps. and nine further *Argyraetis* spp., probably undescribed. Heliadiniidae: Three *Eretnocera* spp. 'for a splash of colour'.

EZARD, A. S. (1) Lepidoptera from Julienrupt, Vosges mountains, France. 17–23.vi.2000: *Hypena crassalis* F., *Eupithecia abietaria* Goeze, *Lithacodia deceptoria* Seop., *Panthea coenobita* Esp., *Hoplodrina superstes* Ochs., *Perizoma taeniata* Steph., *Acronicta strigosa* D. & S., *Tetheella fluctuosa* Hb., *Eustronia reticulatum* D. & S., *Lacanobia contigua* D. & S., *Eutephria infidaria* La Harpe, *Phlogophora scita* Hüb., *Polia hepatica* Cl., *Ecliptopera capitata* H.-S., *Hydrelia sylvata* D. & S., *Semiothisa brunneata* Thunb., *Xestia ditrapezium* D. & S., *Hyppa rectilinea* Esp., *Fagivorina arenaria* Hufn., *Syngrapha interrogationis* L., *Costignophos pullata* D. & S., *Pseudoterpna pruinata* Hufn. (2): *Idaea muricata* Hufn., Epinal, France, 17.vi.2000. (3) Unusual forms: *Hylaea fasciaria* L., Avrilly, France, 16.vi.1999; *Alcis repandata* L., Le Boisson, France, 11.vi.1997.

FOLKARD, N. S. Field observations on the behaviour of lepidoptera in Western Canada, July 2000: (1) At Giant's Head Peak Park, near Kelowna, British Columbia. The park rises sharply to about 1085m. In general, there is during July a shortage of nectar-bearing plants. This obviously poses a problem for the resident Lepidoptera and there is some evidence from NSF's observations that territorial behaviour has evolved in which several species defend both nectar and patches of moisture such as animal urine. One species which appears to exhibit territorial behaviour is *Papilio machaon oregonius* Edw. Its territorial habits are well known (Layberry, Hall & Lafontaine (1998), *The Butterflies of Canada*, Toronto University Press). The males patrol exposed hill tops to establish dominance whilst waiting for females to come up from the valleys to mate. In favourable conditions it is possible to see a dozen or so males patrolling their zones. Each male centres its patrol area around flowering plants. If these plants are packed abundantly the male patrol-areas are only five to seven metres in diameter. If there is an absence of nectar-bearing flowers, the males patrol much bigger areas, often flying out of sight for several minutes. The presence of other males is tolerated far more in resource-rich areas, and little time is spent on challenging intruders. In the resource-poor areas, the appearance of a rival male leads to some form of threat display with the males flying close together and the wings of each striking together audibly. The males fly upwards together and the dominant individual compels his rival to fly beyond his patrol zone. After such climbing and spiralling flights, the dominant individual returns to his nectar or water resource and rests for several moments before resuming his patrol flights. In resource-rich areas, these "combat flights" are far rarer and the males spend longer feeding. Patches of moisture and urine are defended equally vigorously. Territorial behaviour does not seem to be confined to the larger butterflies. In the moister areas of the Giant's Head Park, skippers of the species *Hesperia comma manitoba* Seudder were observed competing for moist pools to drink from. All individuals feeding at the pools observed appeared to be males. Either there was a threshold at which crowding triggered aggressive jousting flights or the males tolerated related individuals but not unrelated intruders. In one pool, observed from 15.30 until 16.45, drinking behaviour continued unabated until the number of individuals became greater than six. At this point, the arrival of another insect caused the group to rise up and spiral upwards. Six individuals speedily returned and resumed their stations. Six does not appear a universal value, however, for in the same area of woodland other groups of this skipper were watering in both smaller and larger numbers. (2) At Limestone Mountain, Alpine Meadow, Alberta. Here, there was no shortage of nectar-bearing plants, and NSF saw incidences of territorial behaviour. This is perhaps not surprising, as ecological theory suggests that if the sources are abundant it is a damaging strategy to expend energy defending territory, the most favourable strategy being to feed as rapidly as possible and gain the greatest supply

of energy in order to reproduce. Both on flowers and on the bed of a moist stream there were large numbers of insects exploiting the resource, but not competing with each other. Illustrations of the stream bed were displayed which gave a good impression of the large numbers of insects active at this time. In the two-hour observation period, it was noticed that almost all insects spent a considerable period of time at rest exposing their wings and abdomen to the sun. Some individuals feed extensively for about 20 minutes then fly rapidly back to stonier areas and bask for an equal period of time. During these basking sessions, photography is easy and it is even possible to gently touch the insects without them taking flight.

HALL, N. M. 1) Lepidoptera collected in Spain (with the permission of each autonomous community and of the Parque Natural Cabo de Gata-Níjar in Almería). The main collecting sites were: Pais Vascos: Parque Garaio in Alava. Aragon: Puerto de Santa Barbara & Ontiñena in Huesca. Cataluña: Montañas de Prades & El Torn, near L'Hospitalet del Infant, in Tarragona. Andalucía: El Pozo del Esparto, Vera Playa, Mini Hollywood, Cerro Colorado, Cala Medio Luna, Las Negras and Playa de Los Genoveses, in Almería. Cerro Gordo & Puerto de la Mora in Granada.

A) Geometridae: (i) *Idaea incalearata* Chrét., bred ex gravid female, emerged mid viii–mid ix, El Torn. (ii) *I. subrufaria* Stgr, bred ex gravid female, emerged late viii–mid ix, Cerro Colorado. (iii) *I. litigiosaria* Bsdv., 3.vi.2000, Mini Hollywood & 7.vi.2000, Mora. (iv) *I. lusoliispauica* Hrbt, 7.vi.2000, Mora. (v) *I. alicantaria* Reiss., 25.v.2000, Ontiñena & 31.v.2000, Vera. NMH had previously only found *allicantaria* in Almería—and particularly at Vera Playa where it was abundant. This year, he found it at Ontiñena in Aragon. Regrettably, the site at Vera Playa has now been destroyed. The saltmarsh vegetation has been scraped away to prepare for building a leisure complex. (vi) *I. bustilloi* Agjo, 3.vi.2000, Mini Hollywood & 25.v.2000, Ontiñena. (vii) *Crocallis tusciaria* Bkh., 24.ix.2000, Garaio. (viii) *C. dardoinaria* Donz., 27.ix.2000, Prades. (ix) *C. auberti* Obth., 27.ix.2000, Prades. (x) *Dasypteronia thautiasia* Stgr, 26.ix.2000, Ontiñena. (xi) *Odontognophos duuetata* Tr., 25.ix.2000, Sta Barbara. (xii) *Perconia baeticaria* Stgr, 7.vi.2000, Mora. (xiii) *Coupsoptera opacaria* Hb., 7.x.2000, Las Negras & 27.ix.2000, Prades. This attractive species is common in Spain and south of the Loire in France. It has many attractive colour forms. The male and female have different wing shapes. (xiv) *Kuchleria insignata* Hausmann, 24.iv.1999, Cerro Colorado, 28.iv.1999, Cerro Gordo, 8.x.2000, Medio Luna, 27.iv.1999, Las Negras, 2.x.2000, Pozo Esparto & 7.x.2000, Las Negras. This species was not described until 1994, when Hausmann separated it from the very similar *K. menadiaria* Thierry-Mieg. *insignata* differs in having a green frons. It was surprising to find that *insignata* was common in Almería in October. (xv) *Scotopteryx periholata* Hb., 10.x.2000, Medio Luna. An aberrant form.

B) Noctuidae: (i) *Oxicesta chautoenices* H.-S., 23.v.2000, Sta Barbara & 31.v.2000, Vera. Two very different forms. Karsholt & Razowski list only one *Oxicesta* species for Spain. Whether this should be called *serratae* Zerny or *chautoenices* H.-S. is a question for taxonomists, but for field workers the question is 'why are there two forms?'. It is said that the first and second generations have different forms, but the two specimens exhibited were obtained only a week apart (though in widely separated localities). (ii) *Paodesia robusta* Wlk., 9.x.2000, Las Negras. This subtropical species is common on the Canary Islands but is said to occur in Spain only as a migrant. Two specimens were captured. They *could* be resident in Almería. The volcanic landscape was reminiscent of the Canary Islands and no obvious migration was in progress. (iii) "*Eublemnia bivitta* Obth.", 15.v.1993, Mini Hollywood. New to Spain. The species is illustrated in Culot Vol 2, Plate 68 Fig 3 as a female form of *E. caid* Obth., which is a north African species. However,

specimens of *caid* in the BMNH, which include this form, appear to be a mixture of at least two species, so its 'correct' name cannot yet be determined. It may be part of a complex which includes other *Eublenina* spp. recorded from Eastern Europe. (M. Honey. Personal communication). (iv) *Periphaneas delphinii* L., 25.v.2000, Ontiñena. (v) *Erenodrina oberthuri* Rothsch., 7.vi.2000, Mora. (vi) *Actinotia radiosa* Esp., 23.v.2000, Sta Barbara. (vii) *Mesogona oxalina* Hb., 25.ix.2000, Sta Barbara. (viii) *Atethlia algerica* Culot, 24.ix.2000, Garaio. (ix) *Xanthia anrago* D.&S., 15.x.2000 & 24.ix.2000, Garaio. (x) *X. sulphurago* D.&S., 23.ix.2000, Garaio. Calle (1982) contains an illustration of this species as *X. fulvago* Clerck and states that it has only been recorded in Spain from one locality in Alava province. (xi) *Cardepias* sp., 17.x.98 & 3.x.2000, Vera, 6.x.2000, Genoveses. These are likely to be whatever Spanish entomologists have recorded as *deserticola* Hmps (See Calle, species 135N). Calle gives two illustrations, one (Plate 11) of specimens from the collection of A. Gómez, the other (Plate 53) from Calle's own collection—but both are from Pozo del Esparto, Almería, not far from my own collecting sites, and both were collected 10.xii.78. (xii) *Powellinia lasserrei* Obth., 19.x.98 & 21.x.98, Cerro Colorado, 7.x.2000 & 9.x.2000, Las Negras. (xiii) *P. boetica* Rbr, 5.x.2000 & 8.x.2000, Medio Luna, 6.x.2000, Genoveses. (xiv) *Agrotis dirempta* Stgr, 5.x.2000, Medio Luna, 6.x.2000, Genoveses. The large *Agrotis* spp. occurring in October in Almería are extremely attractive. They are very variable in pattern, size and wing-shape. Following Fibiger, I suspect that most are *dirempta*. (xv) *A. puta* Hb., 8.x.2000, Medio Luna. *puta* was certainly present, but the two specimens exhibited had a different 'jizz' and were smaller. (xvi) *A. turatii* Standfuss, 5.v.1999 Garaio, 23.v.2000 & 24.v.2000, Sta Barbara. *turatii* and its subspecies *emmetabola* can be identified by the '>' mark at the base of the wings, which is often weak. The mark was very strong in one of the specimens exhibited. There may be more than one species in the complex. (M. Honey. Personal communication.)

2) A method for breeding *Idaea* spp.: Eggs are obtained by keeping wild-caught females in stoppered glass tubes. They are kept in the dark with no food or substrate to lay on, and they deposit their eggs loose in the tube. The larvae, on hatching, are raised in glass tubes KEPT UPRIGHT, with a disk of card at the bottom. This constrains the larvae to a small volume, in which they can find even quite small quantities of food, and the disk gives them a good surface to grip if they descend from the food. The food must always include flowers, since some small larvae will (apparently) eat nothing else. *Geranium*, *Helianthemum* or *Erica* are suitable. The total volume of food is kept small and a plug of toilet tissue is used to close the top of the tube. The paper plug ensures that fresh food stays moist for a reasonable time, and then dries and decays rather than going wet and mouldy. A sprig of *Erica arborea* may be placed on top of the food. Some larvae like to sit on *Erica* needles, where there is good ventilation; others can eat the needles themselves. When the larvae are very small, fresh food is added in preference to changing the food (assuming that the old food and any frass are not going mouldy). This is because small immobile larvae are very difficult to find. It is also why the volume of food is initially kept low.

McNAMARA, D. S. K. Some large and spectacular 'skippers' (Lep: Hesperiiidae) from Bolivia, x.98. Most were caught at one spot—Tajma (1780 m) near Chulumani, Sud Yungas, Bolivia. These were massing by a small pond fed by a mountain stream—the damp edges were a favourite place for them. (Identification is still in progress).

PARSONS, M. S. A small selection of moths collected during the Societas Europaea Lepidopterologica (SEL) Congress at Bialowieza, Poland, late May/early June 2000

including: *Mouopsis mouachella* (Hb.); *Pseudotelphusa paripunctella* (Thunb.); *Dichomeris derasella* (D. & S.); *Brachmia ?inornatella* (Douglas); *Chrysoclista lathauella* Fletcher; *Pyrausta aerealis* (Hb.); *Diasemia reticularis* (L.); *Ostrinia palustralis* (Hb.); *Agrotera nemoralis* (Scop.); *Sabra harpagula* (Esp.); *Scopula inornata* (L.); *Lythria cruentaria* (Hufn.); *Eupithecia ?orphuata* Petersen; *Itane brunneata* (Thunb.); *Trisateles emortualis* (D. & S.); *Colobochyla salicalis* (D. & S.); and from near Wegrów: *Loxostege turbidalis* (Treit.) and *Hadenia irregularis* (Hufn.).

SPALDING, A. A selection of moths from Białowieża National Park, Poland, collected during the Societas Europaea Lepidopterologica (SEL) Congress, late v/early vi.2000. The selection included specimens of *Diachrysa chrysitis* (L.) and *D. tutti* (Kostrowicki); some authors separate *D. chrysitis* from *D. tutti* according to the size of the median gap (but also by hindwing scales and genitalia). *tutti* generally has a gap of 0.8–2.0mm, but this distinction is not universally accepted.

DIPTERA

ALEXANDER, K. N. A.—Two uncommon species found during 2000: *Tauvyptera uigricornis* (Meig.) (Tipulidae), St Peter's Wood, Bovecastle (SX19), E. Cornwall (V.C. 2), 29.v, new to vice-county; *Ogcodes gibbosus* (L.) (Aeroceridae), Harting Down (SU71), W. Sussex (V.C. 13), 28.vi.

BOYD, G.—A selection of mostly common hoverflies (Syrphidae) collected during 1999 and 2000: twenty-seven species were exhibited including the following: the most notable being *Xanthandrus comtus* (Harris), Mildenhall Woods, Barton Mills, W. Suffolk (TL7375), 12.viii.1999; *Platycheirus fulviventris* (Maeq.) and *P. inmarginatus* (Zett.) were taken in their typical habitat of rich estuarine marsh, Humber Shore, Brough, S.E. Yorks (SE9425), 20.v.2000; *Eristalis abusivus* Collin, although usually coastal, was taken well inland at the edge of the Southern Magnesian Limestone near Wetherby at Old Railway Line, Kirk Deighton, Mid W. Yorks (SE3849); *Parhelophilus versicolor* (F.) and *Anasimyia lineata* (F.) were taken at a developing wetland reserve around old gravel workings in the Nene Valley, Wilson Pits Reserve, Rushden, Northants (SP9468); *Sericomyia lappoua* (L.) was swept from a peaty moorland tarn at Cragg Vale, Calderdale, S.W. Yorks (SD9723).

CHANDLER, P. J.—*Blepharipa schineri* (Mesnil) (Tachinidae), newly found in Britain: two males were identified from a sample collected by a Malaise trap run during 1998 and 1999 by Daniel Haekett at Highgate Wood, Middlesex. This is principally a parasite of the Gypsy Moth *Lymantria dispar* and became more frequent in Germany in 1994–1996 with its host, but has also been associated with some species of Notodontidae, Lasioleptidae and Endromidae. *Blepharipa* is a genus new to Britain; *B. schineri* is less common in Europe than *B. prateusis* (Meig.), which has the same range of hosts. It is also related to *Sturmia bella* (Meig.), also recently added to the British list. A paper formally adding *B. schineri* and covering distinguishing characters of this and *S. bella* is being published in *Dipterists Digest*. French specimens of *B. prateusis* and *S. bella* were also exhibited.

DOBSON, J.—Some interesting records from the London Borough of Harrow:

(1) from Stanmore Common LNR (TQ19L/R): *Agathomyia waukowiezii* (Sehnabl) (Platypezidae) (TQ157941), 17.vi.2000, a male, the first British record of an adult of this species which forms distinctive galls on the fungus *Ganoderma applanatum*, taken during aerial sweeping in mid-afternoon along a south-facing woodland-edge path; subsequent search for this species on 25.vi.2000 was

unsuccessful until a female alighted on the exhibitor's black canvas equipment bag, which he had placed on the ground within shady woodland about 20m from where the male was recorded.

(2) from various sites in Harrow: *Hilara interstincta* (Fall.) (Empididae), Pear Wood LNR (TQ177934), 19.vi.1998, a female swarm comprising 10–15 individuals flying in a “vertical” formation over a small stream in shade; *Xanthandrus comtus* (Harris) (Syrphidae), Stanmore Country Park LNR (TQ19R), 10.vii.1998; *Eupeodes nitens* (Zett.) (Syrphidae), Stanmore Country Park LNR (TQ19R), 14.vi.1996; *Volucella inflata* (F.) (Syrphidae), Grim's Dyke Lake (TQ139928), 29.vii.2000; *Cheilosia griseiventris* Loew (Syrphidae), Edgware Lawn Tennis Club (TQ186917), in an overgrown space surrounded by houses and also containing Great Burnet *Sanguisorba officinalis*, 30.viii.2000; *Tomosvaryella palliditarsis* (Collin) (Pipunculidae), Weald Wood (TQ139927), in an ancient hornbeam (*Carpinus betulus*) coppice remnant, 30.vii.2000.

(3) from the exhibitor's garden in Harrow (TQ164886): *Tabanus autumnalis* L. (Tabanidae), 30.vii.1995—a female flew into the house on a hot afternoon during a drought period, possibly attracted by reflections from the French windows; *Leopoldius signatus* (Wied.) (Conopidae), 8.viii.1997, inspecting occupied bee hotels erected in the garden; *Norellia spinipes* (Meig.) (Scathophagidae), 18.vi.1997, reared from daffodil (*Narcissus* species) bulbs; *Lophosia fasciata* Meig. (Tachinidae), 12.vii.1994, a female found trapped in the greenhouse.

GODFREY, A.—(1) Rare Diptera from the Braemar area in 2000, all from the Mar Lodge Estate, Braemar, Aberdeenshire: *Dicranomyia* (*Melanolimonia*) *caledonica* Edw. (Limoniidae), recorded from several sites with one exhibited from river shingle on the Quoich Water, Glen Quoich, 22.vi; *Spiriverpa lunulata* (Zett.) (Therevidae), frequent on river shingle, exhibited from Glen Lui, 20.vi; *Rhadiurgus variabilis* (Zett.) (Asilidae), frequent on river shingle, exhibited from the Quoich water downstream from the Linn of Quoich, 25.vi.; *Tachydromia acklandi* Chvála (Hybotidae), from river shingle on River Dee, downstream of Victoria Bridge, 25.vi; *Rhauphomyia hirtula* Zett. (Empididae), swept from Little Loch Etchachan, 29.vi; *Heleodromia irwini* Wagner (Empididae), frequent on river shingle, exhibited from the River Dee downstream of White Bridge, 28.vi. and River Lui, 20.vi.; *Microdon analis* (Macq.) (Syrphidae), on a birch (*Betula*) log in Glen Quoich, 26.vi; *Campiglossa argyrocephala* (Loew) (Tephritidae), swept from the lochan upstream of Derry Lodge, Glen Derry, 23.vi; *Clusiodes apicalis* (Zett.) (Clusiidae), from a fallen birch tree in Glen Quoich, 23.vi; *Lasianthia palposa* (Fall.) (Chloropidae), swept from the Quoich water downstream of the Linn of Quoich, 25.vi; *Suillia dawnae* Withers (Heleomyzidae), from river shingle on the Quoich Water, downstream of the Linn of Quoich, 22.vi; *Cephenomyia auribarbis* (Meig.) (Oestridae), settled on a rock at edge of River Dee, upstream of the Linn of Quoich, 28.vi; *Hypoderma diana* Brauer (Oestridae), swept in a Caledonian pine (*Pinus sylvestris*) wood at the lower end of Glen Quoich, 26.vi; *Eruoneura argus* (Zett.) (Scathophagidae), swept from Little Loch Etchachan, 29.vi; *Bellardia pubicornis* (Zett.) (Calliphoridae), taken on several occasions, exhibited from the River Dec downstream of Victoria Bridge, 25.vi; *Alliopsis albipennis* (Ringdahl) (Anthomyiidae), swept from montane grassland surrounding Loch Etchachan, 29.vi, adults frequent on boulders; *Spilogona triangulifera* (Zett.) (Muscidae), from Pools of Dee, 5.vii, also frequent at Loch Etchachan and Coire Brochain.

(2) Rare Diptera from Mid-Wales, the Welsh Borders and Derbyshire in 2000: *Limonia masoni* (Edw.) (Limoniidae), swept from shaded stream, Habberley Valley, Pontesbury, Salop, 15.v; *Lipsothrix errans* (Walker) (Limoniidae), swept and reared

from several sites, exhibited from Tick Wood, Buildwas, Salop, 17.v; *L. nervosa* Edw. (Limoniidae), swept and reared from several sites, exhibited from Cuckoopen Coppice, Hopton Cangeford, Salop, 21.v; *L. nigristigma* Edw. (Limoniidae), swept and reared from several sites in Salop, exhibited from Oak Dingle, Tugford, Salop, 21.v and Whitwell Coppice, Much Wenlock, Salop, 17.v. *Scleroprocta pentagonalis* (Loew) (Limoniidae), from several sites in Salop and mid-Wales, exhibited from Chermes Dingle, Leighton, Salop, 17.v; *Spania nigra* Meig. (Rhagionidae), reared from liverwort taken from Lydbrook Dingle, Coalbrookdale, Salop, adult emerged 13.vi; *Haematopota grandis* Meig. (Tabanidae), Cors Dyfi, Machynlleth, Merioneth, 30.vii; *Chalcosyrphus eunotus* (Loew) (Syrphidae), observed from wooded streams with coarse woody debris at several sites in Salop, exhibited from Lydbrook Dingle, 13.v; *Xylota florina* (F.) (Syrphidae), reared from puparium found under bark, Whitwell Coppice, Much Wenlock, Salop, adult emerged 13.vi; *Tomosvaryella cilitarsis* (Strobl) (Pipunculidae), Glaslyn, Aberhosan, Merioneth, 29.vii; *Pseudopomyza atrinana* (Meig.) (Pseudopomyzidae), Cwm y Wydden, Pant-y-ffridd, Montgomery, 12.vi; *Parochthiphila coronata* (Loew) (Chamaemyiidae), from pioneer grassland on the former iron foundry, Renishaw, Derbyshire, 24.vii; *Siphonella oscinina* (Fall.) (Chloropidae), swept in small numbers on several dates from pioneer grassland on the former iron foundry, Renishaw, Derbyshire, 24.vii; *Melanochaeta pubescens* (Thalhammer) (Chloropidae) and *Scathophaga scybalaria* (L.) (Scathophagidae), frequent on two coastal Merionethshire sites, exhibited from Morfa Dyfi, Machynlleth, 30.vii.

HALSTEAD, A.—Some mildly interesting Diptera taken between downpours in 2000: *Dolichopus longicornis* Stann., *Hercostomus celer* (Meig.) and *H. nigriplantis* (Stann.) (Dolichopodidae), Riverbank wildlife area, RHS Garden, Wisley, Surrey, 15.vi; *Platycheirus granditarsus* (Forst.) (Syrphidae), intersex colour form swept from water meadows south of Pyrford, Surrey, 17.vi; *Xylota tarda* Meig. (Syrphidae), Effingham Forest, south of East Horsley, Surrey, 1.vii.

HAWKINS, R. D.—Some uncommon or unusual Diptera taken in Surrey (V.C. 17) during 2000: *Tipula marginella* Theowald (Tipulidae), Hedgecourt Pond, Felbridge, 17.vi, swept from grassy clearing in willow (*Salix*) and alder (*Alnus*) carr at edge of lake; *Xanthandrus comtus* (Harris), Tilburstow Hill, Bletchingley, 17.vii, on nettles (*Urtica dioica*) in woodland of sweet chestnut (*Castanea sativa*) and sycamore (*Acer pseudoplatanus*); *Dasyrphus albostrigatus* (Fall.) (Syrphidae), Mickleham, 18.ix, larva found in horse dung under trees during rain, adult reared; *Callicera aurata* (Rossi) (Syrphidae), Park Downs, Banstead, 26.vi, chalk grassland beside yew (*Taxus baccata*), sycamore and beech (*Fagus sylvatica*) trees.

JONES, R. A.—(1) *Rhagoletis meigenii* (Loew) (Tephritidae) rediscovered in Britain, a male swept on "Goose Island", one of three small man-made islands on the ornamental lake in Battersea Park, Surrey, 19.vi.2000; a female from the centre of the Park, 17.vii.2000, by beating *Berberis thunbergii*. The only previously known record in Britain is of a single male collected at Lyndhurst, Hants in 1897 (apart from an unconfirmed record from Moseley, Wores in 1908) and the fly was thought to be extinct in Britain. Its natural foodplant is Barberry *Berberis vulgaris*, which is widespread but local while *B. thunbergii* is widespread and abundant in gardens, as are many other *Berberis* species.

(2) *Heringia sentilis* Sack (Syrphidae), a hoverfly new to Britain, reared from larvae found inhabiting the spiral leaf-petiole galls made by the aphid *Pemphigus spirothecae* on Lombardy Poplars (*Populus nigra* var. *italica*), Forster Memorial Park, Catford, Kent. Galls with larvae were collected 30.ix.1999 and produced adults during iv and v. 2000. A return visit to the Park in ix.2000 yielded more larvae from



PLATE 1 ANNUAL EXHIBITION 2000

1: *Colias croceus* bred F₂, Lymington, Hants, A. S. Harmer. 2: *C. croceus* ab., Longrock, Penzance, Cornwall, S. J. Barron (exhib. M. Tunmore). 3: *Lycaena dispar*, bilateral gynandromorph, bred, 2000, P. Tebbutt. 4: *C. croceus*, bred, temperature experiment, K. E. J. Bailey. 5: *C. croceus*, obsolete aberration, Surrey, 2000, A. M. Jones. 6, 7: *Apatura iris* & *A. ilia* hybrids 6: male upperside, 7: male underside. K. E. J. Bailey. 8: *Lysandra coridon* ab *antidigitata*, bred 2000, P. Tebbutt. 9: *Aphantopus hyperanthus* ab. 2000, captured P. Tebbutt. 10: *Aricia artaxerces salmacis* ab. *unicolor*, Kirby, 2000, A. Butler. 11: *Aphantopus hyperanthus* ab. *arete*+*lanceolata*, bred, 2000, A. S. Harmer. 12: *Polygonia c-album*, bilateral gynandromorph, bred, ex New Forest 1931 by W. Graham-Smith (exhib. K. E. J. Bailey)



PLATE 2 ANNUAL EXHIBITION 2000

1: *Biston betularia*, Witherslack, Westmorland, 2000, D. Brown. 2: *Euproctis similis* E. Kent, 2000, S. Clancy. 3: *Tyria jacobaeae* ab. *flavescens*, E. Kent, 2000, S. Clancy. 4: *Epirrhoe alternata* Hampton Wood, Warwick, R. Bliss exhib. by D. Brown. 5: *Melanthia procellata* ab. *nigrapicata*, Hythe, E. Kent, T. Rouse. 6: *Luperina testacea*, Murlough, Down, 2000, B. Skinner. 7: *Rhodometra sacraria* ab., Stourcross, Devon, 2000 A. H. Dobson. 8: *Epirrhoe alternata* Henley, Oxon, 2000, D. Wedd. 9: *Mythimna ferrago*, Porthcotham W. Cornwall, 2000, A. Spalding. 10: *Prays citri*, S. Kensington, Middx, 2000, M. R. Honey. 11: *Pseudoterpua coronillaria*, Jersey, Channel Islands, 2000 D. Wedd. 12: *Costaconvexa polygrammata*, Closworth, S. Somerset, 2000 J. Astley exhib. by P. H. Sterling. 13: *Ancylodes pallens*, Gaunt's Common, Dorset, 1999, P. Davey exhib. P. H. Sterling. 14: *Lynaustria mouacha*, Broxbourne Woods, Herts, C. W. Plant. 15: *Autographa gamma*, Shabbington Wood, Bucks, 2000, R. Kemp.

the *Peniphigus* galls. Galls from a Lombardy Poplar in Peckham Rye Park, Surrey, collected at the same time also contained similar-looking larvae, suggesting that this may be an overlooked, but possibly widespread species. (R. A. Jones in press gives distinguishing characters).

(3) Other miscellaneous Diptera: *Leptarthrus vitripennis* Meig. (Asilidae), Saltbox Hill, Biggin Hill, Kent, 15.vi.1999; *Didea fasciata* Macq. (Syrphidae), Forster Memorial Park, Catford, Kent, 5.v.1999, on the wing over low scrub; *Callicera aurata* (Rossi) (Syrphidae), Woodlands Farm, Bexley, Kent, 3.viii.1998, sitting on Bramble (*Rubus fruticosus*); *Sphaerophoria rueppellii* (Wied.) (Syrphidae), Shoreditch, Middlesex, 11.viii.1999, very many specimens on the low plants breaking through concrete foundations on this derelict site, perhaps the most central London location for a species centred on the flood plains of the Thames Estuary; *Megamerina dolium* (F.) (Megamerinidae), Forster Memorial Park, Catford, Kent, 27.v.1999; Ashridge Estate, Herts, 6.vi.1999; Dulwich and Sydenham Hill Woods, Surrey, 7.vi.2000; *Parachusia tigrina* (Fall.) (Clusiidae), Woodlands Farm, Bexley, Kent, 6.vi.1998, swept in old woodland; *Ensina souchi* (L.) (Tephritidae), Stanmore, Middx, 7.v.1999; *Rhagoletis alternata* (Fall.) (Tephritidae), Ashridge Estate, 6.vi.1999; *Mintho rufiventris* (Fall.) (Tachinidae), Ladbroke Grove, Middx, sitting on leaf on wooded railway embankment in the rain, date not given; *Gynnosoma nitens* Meig. (Tachinidae), Woodlands Farm, Bexley, Kent, 18.vi.1998, swept from sparsely vegetated rubble of derelict farm yard, and Woolwich, Kent, swept from sparsely vegetated rubble of bulldozed derelict site, 25.vii.2000, a new niche in this "novel" habitat for a species formerly thought to be confined to the North Downs in Surrey.

KNIGHT, G. & A.—Some unusual Syrphidae from a town garden in Wolverhampton: *Callicera aurata* (Rossi) and *Mallota cimbiciformis* (Fall.).

PARKER, M.—Some rare and local Diptera collected in 2000: *Atherix ibis* (F.) (Athericidae), swept from vegetation while wading the River Lynher at Cadsonbury, Cornwall (SX346677), 30.v; *Symphoromyia immaculata* (Meig.) (Rhagionidae), chalk grassland at Stonehill Down, Dorset (SY9282), 18.vi; *Stratiomys chamaeleon* (L.) (Stratiomyidae), one female caught at *Heracleum sphondylium* flowers, Waun Eurad, Llanbedrgoch, Anglesey (SH508804), 29.vii; *Bombylius discolor* Mikan (Bombyliidae), female caught basking on a track at Breach Wood, Dorset (ST753039), 27.iv; *Cheilosia ahenea* (von Roser) (Syrphidae), a male and female swept from herb-rich coastal sand dunes adjacent to Kintra campsite, The Oa, Islay, Inner Hebrides (NR322485), 25.vi; *C. carbonaria* Egger (Syrphidae), male swept from *Ranunculus* species on a woodland ride in Milborne Wood, Dorset (SY7897), 13.v; *C. mutabilis* (Fall.) (Syrphidae), a female swept from heathland adjacent to River Feshie at Feshiebridge, Easternness (NH48048), 2.viii; *Chrysotoxum elegans* Loew (Syrphidae), female flying around and landing on a gorse (*Ulex europaeus*) bush like several others at Stonehill Down, Dorset (SY9282), 18.vi; *Didea fasciata* Macq. (Syrphidae), female at umbels at Lagg, Isle of Jura, Inner Hebrides (NR594784), 29.vi; *D. intermedia* Loew (Syrphidae), male and female at *Potentilla* species at Rothiemurchus, Easternness (NH918098), 2.vii; *Melanogaster aerea* (Loew) (Syrphidae), male swept from roadside verge at Tadnoll Heath, Dorset (SY792873), 27.vii; *Microdon mutabilis* (L.) (Syrphidae), male swept from damp herb-rich hollow at Ardlussa Bay, Isle of Jura, Inner Hebrides (NR654884), 29.vi; *Neoscia obliqua* Coc (Syrphidae), female swept from meadowland at Boscame Junction, Cornwall (SX042673), 29.vi; *Herina palustris* (Meig.) (Ulidiidae), male swept from grassland on waste ground at Creech Heath, Dorset (SY9283), 22.vii; *Merzomyia westermanni* (Meig.) (Tephritidae), female swept from coastal vegetation at West Bexington,

Dorset (SY533864); *Trypeta zoe* Meig. (Tephritidae), female swept from flower-rich grassland at Findhorn Dunes, Easternness (NJ0464), 31.vii; *Phasia obesa* (F.) (Tachinidae), male swept from a grassland ride within Glovers Coppice, Cranbourne Chase, Dorset (ST9618), 8.vii.

RAPER, C.—Parasitic flies (Tachinidae) and their hosts: an exhibit showing variation in this family and to illustrate the variety of hosts (some hosts shown were examples of their type and not necessarily a proven host for the featured tachinid; specimens of these were loaned by Norman Hall and Martin Harvey); a request for data of reared material to go into a database of tachinid host data (and offer to determine specimens) was included—(contact Chris Raper at 46 Skilton Road, Tilehurst, Reading, Berks RG31 6SG): *Tachina grossa* (L.) with oak eggar *Lasiocampa quercus* (L.)—the fly was taken on heathland where *Lasiocampa* species have been recorded; *Prosenia siberita* (F.) and brown chafer beetle *Serica brunnea* (L.)—the British host is unknown but it is known to attack chafer larvae abroad; *Phasia hemiptera* (F.) and a shield bug *Pentatomia rufipes* (L.)—with its patterned and curved wings, this striking fly resembles its hosts; *Pales pavidus* (Meig.) and Six-spot Burnet *Zygaena filipendulae* (L.)—three adults of the fly had been reared in 2000 by the exhibitor from unhatched cocoons of this moth, the moth larvae being killed after spinning the cocoon but before pupation; *Exorista rustica* (Fall.) and a sawfly *Dolerus* species; *Actia laenia* (Meig.) and a tortrix moth *Epiblema* species—a small species adapted to attack micro-moth larvae; *Cadurciella tritaeniata* (Rond.) and the Green Hairstreak *Callophrys rubi* (L.)—unusually for a tachinid, a highly host-specific species only attacking the larvae of this butterfly and frequent wherever it occurs; *Ocytata pallipes* (Fall.) and the Common Earwig *Forficula auricularia* (L.)—one of only two tachinids in Britain to attack earwigs, both of which are common.

SALISBURY, A.—Some noteworthy species of the conservation area in the Royal Horticultural Society's Garden, Wisley, Surrey (TQ063591). The 3-acre conservation area is located at the north end of the Garden, bordered on the western side by the River Wey; until 1997 the area was an undeveloped part and insect recording has been carried out since v.1997 by standardised monitoring programmes (pitfall, trapping and mercury vapour light trap) and general methods (e.g. sweep net). To date over 1000 species of insects have been recorded, and the Diptera exhibited were collected by Andrew Halstead: *Thereva plebeja* (L.) (Therevidae), viii.1997; *Agathomyia falleni* (Zett.) (Platypezidae), ix.1999; *Volucella zonaria* (Poda) (Syrphidae), at Ivy blossom, ix.1999; *Myolepta dubia* (F.) (Syrphidae), at *Heracleum* flowers, vii.1997; *Neoascia interrupta* (Meig.), iv.1997; *N. obliqua* Coe (Syrphidae), iv.1997; *Pipiza lugubris* (F.) (Syrphidae), iv.1997; *Leopoldius signatus* (Wied.) (Conopidae), seen on Ivy (*Hedera helix*) flowers, x.1999, and at M.V. trap, ix.2000; *Megamerina dolium* (F.) (Megamerinidae), vii.2000; *Dioxya bidentis* (R.-D.) (Tephritidae), vii and ix.1999; *Euphranta toxoneura* (Loew) (Tephritidae), vii.1997.

SMITH, M. N.—Some uncommon soldierflies (Stratiomyidae) taken in 2000: *Stratiomys potanida* Meig., Dry Sandford Pit, Oxon, 17.vi; *S. chamaeleon* (L.), Dry Sandford Pit, 26.vii, the first record from the site since 1992; *S. singularior* (Harris), Armstrong Quarry, Darfolds, Derbys. (V.C. 57), 19.vii.

STUBBS, A.E.—Garden monitoring in central Peterborough, Cambs. Graphs of results for 11 years for butterflies and hoverflies (Syrphidae) were displayed, based on weekly maxima. Also daily results were shown for the Marmalade Hoverfly *Episyrphus balteatus* (De Geer), showing the pattern of peaks comparing these years. Lists for various invertebrate groups and plants were shown, including 21 species of butterflies and 61 species of hoverflies.

COLEOPTERA

ALEXANDER, K. N. A.—A selection of the more interesting beetles found during 2000. *Ampedus cardinalis* (Schiödte) (Elateridae), Forthampton Oaks, West Gloucestershire, SO83, 22.iv.2000, new county record; *Procræus tibialis* (Boisduval & Lacordaire), Forthampton Oaks, West Gloucestershire, SO83, collected by J. Harper, 22.iv.2000; *Epiphanis cornutus* Eschscholtz (Eucnemidae), Bradenham Woods, Buckinghamshire, SU89, 12.vii.2000, new county record; *Hylis olexai* (Palm) (Eucnemidae), Basildon Park, Berkshire, SU67, 17.vii.2000; *Rhagonycha translucida* (Krynicky) (Cantharidae) Bynorth Cliff, East Cornwall, SX19, 8.vi.2000, first modern county record; *Dorcatoma dresdensis* Herbst (Anobiidae), Ashdown Park, Berkshire, SU28, at bracket fungus *Ganoderma adspersum*, 19.vi.2000; *Lyctus brunneus* (Stephens) (Lyctidae), The Park, Phillips House, South Wiltshire, SU03, at split oak, 6.vii.2000; *Opilo mollis* (Linnaeus) (Cleridae), Forthampton Oaks, West Gloucestershire, SO83, 22.iv.2000; *Hallomenus binotatus* (Quensel) (Melandryidae), Harting Down, West Sussex, SU71, at bracket fungus *Laetiporus sulphureus* on yew, 28.vi.2000; *Abdera flexuosa* (Paykull) (Melandryidae), Cabilla Wood, East Cornwall, SX16, at bracket fungus *Inonotus radiatus* on alder, 30.v.2000, new county record; *Phloiodya vaudoueri* Mulsant (Melandryidae), Shugborough Park, Staffordshire, SJ92, in fallen oak branch, 26.vii.2000, new county record; *Mordellistena neuwaldeggiana* (Panzer) (Mordellidae), Basildon Park, Berkshire, SU67, at split horse chestnut trunk, 17.vii.2000; *Ischnomera cinerascens* Pandellé (Oedemeridae), Bradenham, Buckinghamshire, SU89, 12.vii.2000; *Aderus oculatus* (Paykull) (Aderidae), Shugborough Park, Staffordshire, SJ92, off dead oak branches, 26.vii.2000, new county record; *Cathormiocerus maritimus* Rye (Curculionidae), Penhallic Point, Tintagel, East Cornwall, SX08, 31.v.2000; *Orthochaetes insignis* (Aubé) (Curculionidae), Predannack Cliff, West Cornwall, SW61, 6.vi.2000.

BARCLAY, M. V. L.—(1) An exotic weevil *Otiorhynchus corruptor* Host. (Curculionidae) collected by S. J. Ormerod in South African grapes from Sainsbury's, Thornhill, Cardiff. This continental species was probably imported with European produce and subsequently moved onto the grapes.

(2) Coleoptera taken in Chatham District, East Kent (VC 15) during 2000 (all from pitfall and flight intercept traps). * indicates first vice-county record; Malling Wood, TQ7661: July—*Cryptophagus ruficornis* Stephens (Cryptophagidae), **Lycoperdina hovistae* (F.) (Endomychidae), *Anaspis thoracica* (L.) (Scraptiidae), *Acalles nissellus* Boh. (Curculionidae). September—*Liogluta pagana* (Erichs.) and *Staphylinus fortunatarius* (Woll.) (Staphylinidae), *Orchesia minor* Walker (Melandryidae), *Acalles ptinoides* (Marsham), *Acalles roboris* Curtis and *Trachodes hispidus* (L.) (Curculionidae). Frith Wood, TQ7561: September—*Nicrophorus interruptus* Steph. (Silphidae), *Aphodius zenkeri* Germ. (Scarabaeidae). Great Wood, TQ7068: July—*Leiodes strigipenne* Daffner (Leiodidae), *Dirhagus pygmaeus* (Fab.) (Eucnemidae). Cossington Fields, TQ7661: July—*Agrius angustulus* (Ill.) (Buprestidae), *Variimorda villosa* (Schrank) (Mordellidae), *Tropiphorus elevatus* (Herb.) (Curculionidae); September—*Platycis minuta* (Fab.) (Lycidae), *Scymnus femoralis* (Gyll) (Coccinellidae), *Lycoperdina hovistae* (Fab.) (Endomychidae), *Chalcoides nitidula* (L.) (Chrysomelidae), *Plinthus caliginosus* (Fab.) (Curculionidae).

(3) Notable or otherwise interesting Coleoptera from Bookham Common, Surrey, TQ1256. The ongoing Bookham Survey now stands at over 1350 species; *Berosus signaticollis* (Chap.) (Hydrophilidae), in water-filled tyre tracks, 30.ix.2000, *Aleochara kamila* Likovsky (Staphylinidae), at sap run, 19.viii.2000, *Aleochara tristis* Grav. (Staphylinidae), in dung, 19.viii.2000, *Pselaphus heisei* (Herbst)

(Pselaphidae), vacuum sampler 30.ix.00, *Euplectus punctatus* Muls. (Pselaphidae), in buried oak twigs, 14.iii.1999, *Nicrophorus interruptus* Steph. (Silphidae), carrion trap, 13.ix.2000, *Molorchus umbellatarum* (von Schreber) (Cerambycidae), on elder-blossom, 14.vi.2000, *Graunoptera variegata* (Germ.) (Cerambycidae), on oak 21.vi.2000, *Bruchidius varius* (Olivier) (Chrysomelidae), sweeping, 31.v.2000, *Gastrophysa viridula* (DeG.) (Chrysomelidae), sweeping, 31.v.2000 (This generally abundant species is exceedingly rare in the Surrey Heaths district), *Deporaus mannerheimi* (Hummel) (Attelabidae), 21.vi.2000, *Nanophyes gracilis* (Redten.) (Nanophyidae), vacuum sampler, 19.viii & 31.ix.2000, *Zacladus exiguus* (Olivier) (Curculionidae), 13.v.2000 & 14.vi.2000, *Bagous lutulosus* (Gyll.) (Curculionidae) vacuum sampler on *Juncus*, 30.ix.2000.

(4) A selection of interesting Coleoptera, including new vice-county records (Marked with *):

Aleochara brevipes Grav. (Staphylinidae), Norton Canes, Staffordshire, SK0207, viii.2000. **Carpellinus lindrothi* Palm (Staphylinidae), Shapwick Heath, Somerset, ST4240, in *Typha* bed by small ditch, 18.v.1997. **Autylus maritimus* Thomson (Staphylinidae), Derby Haven, Isle of Man, SC2467, under rotting seaweed on strandline, 1.iv.1995 & 14.vii.2000. *Tychobythinus glabratus* (Rye) (Pselaphidae), vacuum sampler on short turf with *Lasius flavus* hills, White Downs, Surrey, TQ1148, 7.v.2000. *Lucanus cervus* (L.) (Lucanidae), pieces of male dropped from tree at night by ?owl, Battersea Park, Surrey, TQ 2877, 20.vi.1999. *Cetonia aurata* (L.) (Scarabaeidae), very abundant on *Viburnum* blossom, Box Hill, Surrey, TQ 1850, 7.v.2000. *Aphaniisticus pusillus* (Oliv.) (Buprestidae), Aston Rowant, Oxfordshire, SU7298, vacuum sampler on chalk, 14.x.2000. *Trachys scrobiculatus* Kiesen. (Buprestidae), vacuum sampler on *Glechoma*, Box Hill, Surrey, TQ1850, 7.v.2000. **Leptophloeus crenatidis* (Erichs.) (Laemophloeidae), in runs of *Xylocleptes bispinus* (Dufts.) (Curculionidae), Battersea Park, Surrey, TQ 2877, 6.v.2000. *Diplocoelus fagi* Guér.-Mén. (Biphyllidae), by sweeping, Battersea Park, Surrey, TQ2877, 6.v.2000. *Molorchus umbellatarum* (von Schreber) (Cerambycidae), on dogwood blossom, White Downs, Surrey, TQ1148, 17.vi.1998. **Bruchidius varius* (Olivier) (Chrysomelidae), Aston Rowant, Oxfordshire, SU7298, vacuum sampler on *Reseda*, 14.x.2000. *Cryptocephalus nitidulus* F. (Chrysomelidae), beating *Betula*, Box Hill, Surrey, TQ1850, 7.v.2000. *Bruchela rufipes* (Olivier) (Anthribidae), beating *Reseda* in cracks in path, Box Hill, Surrey, TQ1850, 29.vi.2000. *Caenopsis fissirostris* (Walton, J.) (Curculionidae), Chasewater Heath, Staffordshire, SK0407, viii.2000. *Baris picicornis* (Marsham) and *Ceutorhynchus terminatus* (Herb.) (Curculionidae), Aston Rowant, Oxfordshire, SU7298, vacuum sampler on chalk, 14.x.2000. *Zacladus exiguus* (Olivier) (Curculionidae), very abundant on *Geranium*, Abbey Fish Ponds, Berks, SU5397, 24.vi.2000. *Orobitis cyaneus* (L.) (Curculionidae), vacuum sampler on *Viola*, Box Hill, Surrey, TQ1850, 7.v.2000. **Euophrys rufum* (Broun) (Curculionidae), in dry dead wood, Le Quennevais, St Ouen's, Jersey, Channel Islands, 2.iv.1996.

(5) A box of 60 identified beetles of various families collected in August 1996 in the Village of Kulikovo, Tver Region, Russia. Of these, 24 are also common in the UK, 22 have Red Data Book or 'notable' status here and 14 are thought to be absent from the British fauna. Russian specimens of two characteristic pine forest species, *Ostoma ferrugineum* (L.) (Peltidae) and *Chrysanthia nigricornis* (Westhoff) (Oedemeridae) were shown; these have only recently been added to the British List, and other species doubtless remain to be found in the Caledonian Pine Forest.

BOOTH, R. G.—Two species new to Britain: *Euthicous conicollis* (Fairmaire & Laboulbène) (Seydmanidae), Silwood Park, Berkshire, SU9468, a single female

specimen from a flight interception trap placed close to an old fallen beech tree, 29.v.–30.vi.1999, a very local, old woodland species in Europe; *Monotoma quadricollis* Aubé (Rhizophagidae), Epsom Downs, Surrey, TQ2157, sieving grass heap, 6.iii.1993, a species recently separated from *M. bicolor* Villa & Villa by O. Vorst (1999) *Koleopterologische Rundschau* 69: 153–156; both species have been found mixed in collections and may be collected together; recently collected British and Irish *M. quadricollis* seen from Surrey, Cambridgeshire and South Kerry. A selection of rare or notable species: *Hydrochus carinatus* Germar (Hydrophilidae), Dungeness, East Kent, TR0818, three in weed and wind-blown debris at edge of small lake, 25.iii.2000, new county record; *Leiodes huiicollis* (Rye) (Leiodidae), North Ferriby, South East Yorkshire, SE9724, four in low, sandy clay cliffs, 4.viii.1999; *Eucoumus duboisi* Méquignon (Scydmaenidae), Aldreth, Cambridgeshire, TL4472, several by sieving hay refuse at base of rolled bales at edge of fenland field, 15.iii.2000; *Bledius dissimilis* Erichson (Staphylinidae), North Ferriby, South East Yorkshire, SE9724, a thriving colony in low, sandy clay cliffs, 4.viii.1999, still present at site where discovered by R. Crossley in 1977; *Anotylus uitidulus* (Gravenhorst) (Staphylinidae), Bow, North Devon, SS6901, one male in pitfall trap in arable field, 1.vi.1999, once a common, widespread species but with very few recent records; *Ilyobates nigricollis* (Paykull) (Staphylinidae), Wood Crates, New Forest, South Hampshire, SU2608, a single female sieved from damp *Sphagnum*, 27.v.2000; *Pediacus depressus* (Herbst) (Cucujidae), Silwood Park, Berkshire, SU9468, two females from flight interception trap placed close to old fallen beech tree, 30.vi.–20.vii.1999; *Scaptia fuscata* Müller (Scaptiidae), Silwood Park, Berkshire, SU9468, three specimens beating old oak tree during evening, 30.vi.1999—eye size and antennal length seem to be the best characters to separate this species from the more widespread *S. testacea* Allen; *Sitona macularius* (Marsham) (Curculionidae), Bow, North Devon, SS6901, one female in pitfall trap in arable field, 1.vi.1999; *Ceutorhynchus quercicola* (Paykull) (Curculionidae), Bow, North Devon, SS6901, two in pitfall traps in arable field, 1.vi.1999, a post-1969 record for North Devon; *Miarus micros* (Germar) (Curculionidae), Wicca Pool, West Cornwall, SW4639, two females in flowerhead of *Jasione montana* growing along coast path, 23.viii.2000, a record from the north Cornish coast.

BOWDREY, J. P.—*Lycoperdina succincta* (L.) (Endomychidae), Chalkney Wood, North Essex, TL874276, collected by D. Warner, 7.v.2000, possibly the first British record outside of Breckland and a new county record. Notable beetles from Thorpe-le-Soken, North Essex: *Stenus butrinteusis* Smetana (Staphylinidae), TM180216, in old *Typha* stem by lake, 6.iii.1998; *Anobiinus inexpectatum* Lohse (Anobiidae), TM173229, tapping ivy on garden oak, 1.viii.2000; *Helops caeruleus* (L.) (Tenebrionidae), TM173229, in grass beneath mature oak and on rotten *Salix alba*, 8.ix.1997; *Orchesia micans* (Panzer) (Melandryidae), TM174238, reared from old fungus beneath ash, 22.iv.2000, adults emerged vi.2000; *Chrysolina oricalcia* (Müller) (Chrysomelidae), TM173229, beneath cow parsley *Anthriscus sylvestris*, 3.vi.2000; *Podagrica fuscicornis* (L.) (Chrysomelidae), TM173229, on *Lavatera* and *Malva* in garden.

CUMING, N. St.J.—Some notable beetles from North Essex and East Suffolk: *Silpha obscura* L. (Silphidae), Southwold, East Suffolk, TM515785, 300–400 individuals found on beach, 24.v.2000; *Philonthus spinipes* Sharp (Staphylinidae), St. Osyth, North Essex, TM0913, in decomposing gull carcass on upper beach, 26.ix.2000, new county record; *Lymexylon navale* (L.) (Lymexylidae), Shrublands Park, East Suffolk, TM1252, several individuals flying in woodyard, 19.vii.2000; *Mycetophagus piceus* (Fab.) (Mycetophagidae), Marks Hall, North Essex,

TL830257, on red-rotted oak wood; *Anaglyptus mysticus* (L.) (Cerambycidae), Marks Hall, North Essex, TL841259, found on deciduous woodpile at night, 3.vi.1999; *Phymatodes ahi* (L.) (Cerambycidae), Marks Hall, North Essex, TL841259, on deciduous logpile at night, 28.v.1999; *Tetrops starkii* Chevrolat (Cerambycidae), Hillhouse Wood, North Essex, TL947282, 26.vi.2000, new county record; *Lixus scabricollis* Boheman (Curculionidae), Old Hall Marsh, North Essex, TL966121, 20.v.2000, new county record.

DOBSON, J.—Beetles from Stanmore Common LNR, Middlesex, TQ19: *Hoplia philanthus* (Fuessly) (Scarabaeidae), up to twenty flying and crawling at edge of clearing, 28.vi.2000; *Platycis unimtus* (Fab.) (Lycidae), resting on low vegetation, 16.viii.1998; *Melandrya caraboides* (L.) (Melandryidae), walking up apparently healthy oak trunk during middle of day, 3.vi.2000; *Zengophora subspinosus* (Fab.) (Chrysomelidae), 20.vi.1998; *Phytodecta decemnotata* (Marsham) (Chrysomelidae), 19.vii.1998. Beetles from Pear Wood LNR, Stanmore, Middlesex, TQ1793: *Megatoma undata* (L.) (Dermestidae), one under loose bark of freshly fallen beech trunk, 31.v.2000; *Bitoma crenata* (Fab.) (Colydiidae), numerous on felled beech trunk, 15.vi.2000; *Anaglyptus mysticus* (L.) (Cerambycidae), 20.v.2000.

FOSTER, A. P.—A species new to Britain. *Ixapiou variegatum* (Wencker) (Apionidae), Brockhampton Estate, Herefordshire, SO6957 (a National Trust property), a single female first beaten from mistletoe growing on old fruit tree in an old orchard, 11.viii.2000, and others found subsequently at same site; also near Bollow, Gloucestershire, SO7514, a single male from old orchard, 14.x.2000.

GODFREY, A.—*Bolitophagus reticulatus* (L.) (Tenebrionidae), Glen Quoich, in bracket fungus *Fomes fomentarius*, 1.v.2000.

HARVEY, D.—An exhibit providing a brief overview of research being undertaken on *Lucanus cervus* (L.) (Lucanidae), the stag beetle, by Deborah Harvey and Alan Gange, School of Biological Sciences, Royal Holloway, University of London, in conjunction with the People's Trust for Endangered Species.

JONES, R. A.—(1) Garden Theme exhibit: insects from a Dulwich garden, south-east London. *Lucanus cervus* (L.) (Lucanidae), a female observed in flight on a hot, humid evening, early June 1999, also Sydenham, one male found dead, 25.vi.1995, and Honor Oak, one female found dead beside large, old, oak stump, 10.x.1995; *Saprosites mendax* Blackburn (Scarabaeidae), in flight, 13.v.2000, 14.v.2000, 10.ix.2000; *Onthophagus coenobita* (Herbst) (Scarabaeidae), under fox dung, 10.ix.2000; *Megatoma undata* (L.) (Dermestidae), in flight, 14.v.2000; *Pediacus dermestoides* (Fab.) (Cucujidae), in flight, 5.iv.1999; *Crioceris asparagi* (L.) (Chrysomelidae), landed on garden fence, 13.v.2000. Ancient woodland indicator and other beetle species recorded from Downham Woodland Walk, Bromley, TQ3971, a narrow wooded trackway between dense rows of houses: *Amara montivaga* Sturm (Carabidae), 10.vi.1999; *Lucanus cervus* (L.) (Lucanidae), many found at bases of large, dead, standing tree trunks, 1999, many dead females on 25.viii.1999; *Agrius sinuatus* (Olivier) (Buprestidae), burrows and exit holes, 5.v.1999; *Agrius panonicus* (Piller & Mitterpacher) (Buprestidae), new exit holes in tree trunk, 25.viii.1999; *Stenagostus rhombens* (Olivier) (Elateridae), dead remains under rotten oak bark, 5.v.1999; *Dorcatoma chrysomelina* Sturm (Anobiidae), beating oak branches, 10.vi.1999; *Bitoma crenata* (Fab.) (Colydiidae), 5.v.1999; *Abdera quadrfasciata* (Curtis) (Melandryidae), on large oak log, 22.vii.1999; *Phloiodya vanderi* Mulsant (Melandryidae), 10.vi.1999; *Mordellistena humeralis* (L.) (Mordellidae), 23.viii.1999; *Mordellistena variegata* (Fab.) (Mordellidae), 16.vi.1999; *Phymatodes testaceus* (L.) (Cerambycidae), under loose bark of dead standing oak trunk, 5.v.1999; *Chrysolina oricalcia* (Müller) (Chrysomelidae),

16.vi.1999; *Dorytomus ictor* (Herbst) (Curculionidae), under dead bark of large black poplar tree, 5.v.1999; *Magdalis armigera* (Fourcroy) (Curculionidae), 20.v.1999, apparently increasing in numbers again locally after its decline following the loss of elms from Dutch elm disease; *Xyleborus saxeseni* (Ratzeburg), 23.viii.1999; *Platypus cylindrus* (Fab.) (Platypodidae), many crawling on and boring into dead oak trunk leaving piles of sawdust frass, 23.viii.1999.

(2) Some interesting beetles found recently. *Falagria concinna* Erichson (Staphylinidae), Roding Valley, Essex, many in small bracket fungus on tree stump, 13.vii.1999; *Plegaderus dissectus* Erichson (Histeridae), Aldbury Common, under fungoid beech bark, 20.v.1997; *Agrilus pannonicus* (Piller & Mitterpacher) (Buprestidae), Mayow Park, Catford, Kent, dead remains in old tree trunk, 30.ix.1999; *Agrilus sinuatus* (Olivier) (Buprestidae), Morden Cemetery, Surrey, beating dead hawthorn branches, 15.vii.1998; *Agrilus sulcicollis* Lacordaire (Buprestidae), Ashridge, sweeping, 6.vi.1999; *Stenagostus rhombeus* (Olivier) (Elateridae), Upminster, Essex, reared from pupa under very rotten bark, 5.vii.1999; *Drilus flavescens* (Fourcroy) (Drilidae), Saltbox Hill, Biggin Hill, Kent, several males swept, 25.v.1999; *Anthrenus sarnicus* Mroczkowski (Dermestidae), Baron's Court, Middlesex, sweeping sparse vegetation beside railway track, 12.vii.1999, an out-of-doors record; *Notolaemus unifasciatus* (Latreille) (Laemophloeidae), Cox's Walk, Sydenham Hill Woods, Surrey, several under rotten oak bark, 25.v.2000; *Lissodema quadripustulata* (Marsham) (Salpingidae), Morden Cemetery, Surrey, beating dead hawthorn, 10.vi.1998; *Abdera quadrifasciata* (Curtis) (Melandryidae), Foster Memorial Park, Catford, Kent, sweeping, 17.vi.1999; *Conopalpus testaceus* (Olivier) (Melandryidae), Sydenham Hill Woods, Surrey, many emerged from dead fallen oak branch placed in Owen emergence trap, 8.vi.–2.ix.2000, included one specimen with black elytra (var. *vigorsi* Stephens); *Metoeus paradoxus* (L.) (Rhipiphoridae), Foster Memorial Park, Catford, Kent, on tree trunk, 30.ix.1999; *Ischnomera cinerascens* (Pandellé) (Oedemeridae), The Coombe, Ashridge, beating hawthorn blossom, 13.v.1997; *Aderus oculatus* (Paykull) (Aderidae), Woodlands Farm, Bexley, Kent, several beating old oak tree, 7.vii.1998; *Anoplodera scutellata* (Fab.), Aldbury Common, found dead under loose bark of old beech pollard, 8.viii.1997; *Anaglyptus mysticus* (L.) (Cerambycidae), Woodlands Farm, Bexley, Kent, several beating hawthorn blossom, 13.v.1998; *Agapanthia villosoviridescens* (DeGeer) (Cerambycidae), Moor Park, Hertfordshire, sweeping vegetation along railway embankment, 21.vi.1999; *Plytoecia cylindrica* (L.) (Cerambycidae), Sharpenhoe, sweeping, 13.v.1997; *Orsodacne lineola* (Panzer) (Chrysomelidae), Cox's Walk, Sydenham Hill Woods, Surrey, sweeping, 25.v. and 7.vi.2000; *Bruchela rufipes* (Olivier) (Urodontidae), Westbourne Park, Middlesex, sweeping *Reseda lutea*, 20.vii.1999; *Rhynchites interpunctatus* Stephens (Attelabidae), Three Corner Grove, Addington, Surrey, sweeping, 17.v.1999; *Otiorynchus setulosus* (Stierlin) (Curculionidae), Elm Park, Essex, beating cherry tree on railway embankment, 5.vii.1999, third British specimen and first for Essex (others from Kent), endemic to Sicily; *Magdalis armigera* (Fourcroy) (Curculionidae), Forster Memorial Park, Catford, Kent, several beating elms, 17.vi.1999; *Cossonus linearis* (Fab.) (Curculionidae), Forster Memorial Park, Catford, Kent, sweeping, 8.v.2000; *Dorytomus ictor* (Herbst) (Curculionidae), Morden Cemetery, Surrey, several sweeping under large black poplar tree, 10.iv.1998; *Mecinus janthinus* Germar, Plaistow, Essex, sweeping sparse vegetation at edge of railway track, 8.vii.1999; *Kissophagus hederæ* (Schmitt) (Scolytidae), Morden Cemetery, Surrey, beating ivy, 14.v.1998; *Xyleborus dryographus* (Ratzeburg), Sydenham Hill Woods, Surrey, 25.v.2000 and Dulwich Woods, Surrey, 7.vi.2000.

LEWIS, K. C.—Garden Theme exhibit: material from starling's nest occupied for some fifteen years at back of disused garden shed contained over 2000 larvae, mostly *Attagenus pelli* (L.) (Dermestidae) and *Tenebrio molitor* L. (Tenebrionidae), and over 300 adult *T. molitor*, as well as fragments of various beetles, including *Otiorhynchus sulcatus* (Fab.) (Curculionidae).

MENZIES, I. S.—A species new to Britain. *Paratachys pallidulus* (Antoine) (Carabidae), Bookham Common, Surrey, TQ129563, a single specimen found running on mud by the Eastern Hollow Pond, 31.vii.2000, identified by P. M. Hammond. This species is known from Algeria and southern Spain and is likely to be confused with *Tachys minor* (Fischer von Waldheim) among the British species. Rare or noteworthy beetles from Surrey recorded during 2000: *Agrilus pannonicus* (Piller & Mitterpacher) (Buprestidae), Ashted Common, Surrey, TQ169594, beating elder flowers, 12.vi.2000—this species has again become scarce following its short period of relative abundance between 1986 and 1993; *Rhagonycha translucida* (Krynicky) (Cantharidae), Oaken Grove, Surrey, TQ110490, beating hazel, 23.vi.2000—this has become scarce in Surrey during recent years; *Epilachna argus* (Geoffroy in Fourcroy) (Coccinellidae), Fairmile Common, Surrey, TQ115617, larvae on white bryony *Bryonia dioica* growing over gorse on south side of A3, 8.vii.2000, one adult beaten, 12.viii.2000; *Leptura revestita* L. (Cerambycidae), Ashted Common, Surrey, TQ169594, single female beaten from birch sapling near to dead oak stumps, 7.vi.2000, probably the first Surrey record since 1971 (EMM 108: 22); *Donacia vulgaris* Zschach (Chrysomelidae), Bookham Common, Surrey, TQ129563, several found feeding on *Typha latifolia* in Lower Eastern Pond, 13.vi.2000, first record from this well-recorded site since F. J. Coulson swept a single specimen on 23.v.1930; *Cryptocephalus nitidulus* Fab. (Chrysomelidae), Box Hill, Surrey, TQ180525, in small numbers around birch and hazel saplings on grassy slope; *Chrysolina americana* (L.) (Chrysomelidae), Bookham Common, Surrey, TQ124564, found by Ian Swinney on window of Merritt's Cottage, 1.v.2000—a search of lavender in the cottage garden has failed to reveal further specimens; *Hydrothassa glabra* (Herbst) (Chrysomelidae), Blatchford Down, Surrey, TQ103488, sweeping grassy area, 17.vi.2000, subsequently adults found by grubbing around plants and many fully grown larvae on flowerheads of *Ranunculus repens*, 23.vi.2000, dipterous parasites later emerging from about 25% of collected larvae.

MORRIS, M. G.—(1) Garden Theme exhibit: weevils (Curculionoidea) recorded from the exhibitor's town garden, Orchard House, 7 Clarence Road, Dorchester, Dorset, SY685898. While many species are common and widespread, a few are Nationally Notable. The garden is a typical, medium-sized plot which has grown a variety of garden plants over the past 20 years. Ruderal weeds were mostly present when vegetables were grown, c. 1976–1994, but are less prevalent now that vegetable-growing has ceased. The species recorded fall into three main groups, although a few cannot be satisfactorily categorised: those associated with the original vegetation (ov) of the garden, which is on Chalk; those associated with garden plants (gp) (flowers, vegetables and trees) planted by the exhibitor or previous owners; and those associated with ruderal weeds (rw) of cultivation. Apionidae: *Aspidapion aeneum* (Fab.) (gp), on *Malva moschata* (musk mallow); *Aspidapion radiolus* (Marsham) (gp), on *Althaea rosea* (hollyhock); *Taeniapion urticarium* (Herbst) (rw), on *Urtica dioica* (nettle); *Kalcapion semivittatum* (Gyllenhal) (rw), on *Mercurialis annua* (annual mercury); *Oxystoma craccae* (L.), on window; *Protapion fulvipes* (Geoffroy) (ov), on *Trifolium repens* (White Clover). Curculionidae: *Otiorhynchus clavipes* (Bonsdorff) (ov), polyphagous; *Otiorhynchus lignens* (Olivier) (ov), polyphagous; *Otiorhynchus rugosostriatus* (Goeze) (ov), polyphagous; *Otiorhynchus singularis* (L.) (ov),

polyphagous; *Otiorhynchus sulcatus* (Fab.) (ov), polyphagous; *Polydrusus pterygomalis* Boheman (gp), on *Fagus sylvatica* (copper beech); *Barynotus obscurus* (Fab.) (ov), polyphagous; *Barypeithes pellicidus* Boheman (ov), polyphagous; *Sitona hispidulus* (Fab.) (ov), on *Trifolium* spp.? (clovers); *Sitona humeralis* Stephens (ov), on *Trifolium* spp.? (clovers); *Sitona lepidus* Gyllenhal (ov), on *Trifolium* spp.? (clovers); *Sitona lineatus* (L.) (ov, gp), on various crop and weed legumes; *Hypera postica* (Gyllenhal) (ov), on *Trifolium* spp.? (clovers); *Cionus alauda* (Herbst) (rw), on *Scrophularia auriculata* (water figwort); *Cionus hortulanus* (Fourcroy) (rw), on *Scrophularia auriculata* (water figwort); *Cionus scrophulariae* (L.) (rw), on *Scrophularia auriculata* (water figwort); *Cleopus pulchellus* (Herbst) (rw), on *Scrophularia auriculata* (water figwort); *Leiosoma deflexum* (Panzer) (ov), on *Ranunculus repens* (creeping buttercup); *Magdalis armigera* (Fourcroy), probably casual; *Euophryum confine* (Broun) (gp), in dead wood; *Dorytomus taeniatus* (Fab.) (gp), on *Salix caprea* (goat willow); *Rhinoncus perpendicularis* (Reich) (?ov), probably casual; *Ceutorhynchus assimilis* (Paykull) not auctt. (*pleurostigma* (Marsham)) (gp), on turnips; *Ceutorhynchus erysini* (Fab.) (rw), on *Capsella bursa-pastoris* (shepherd's purse); *Ceutorhynchus floralis* (Paykull) (gp), on garden *Aubrieta*; *Ceutorhynchus obstrictus* (Marsham) (*assimilis* auctt.) (gp, ov), mainly on garden *Alyssum*; *Ceutorhynchus pallidactylus* (Marsham) (gp), on turnips; *Sirocalodes depressicollis* (Gyllenhal) (rw), on *Fumaria* sp. (fumitory); *Sirocalodes quercicola* (Paykull) (rw), on *Fumaria* sp. (fumitory); *Trichosirocalus rufulus* (Dufour) (ov), ?on *Plantago lanceolata* (ribwort plantain); *Trichosirocalus troglodytes* (Fab.) (ov), on *Plantago lanceolata* (ribwort plantain); *Anthonomus rubi* (Herbst) (gp), on garden *Potentilla fruticosa*; *Curculio glandium* Marsham? (gp), larvae in acorns, adults not yet found; *Mecinus pyrae* (Herbst) (ov), on *Plantago lanceolata* (ribwort plantain); *Tychius picirostris* (Fab.) (ov), on *Trifolium repens* (white clover); *Tychius pusillus* Germar (ov), on *Trifolium* sp.?; *Rhynchaenus fagi* (L.) (gp), on *Fagus sylvatica* (copper beech). Scolytidae: *Leperisinus varius* (Fab.), probably casual.

(2) Some rare and notable weevils from various English localities, collected in 2000. *Anthribus nebulosus* (Forster) (Anthribidae), Millyford Green, New Forest, South Hampshire, SU267080, 27.v.2000. Apionidae: *Exapion variegatum* (Wencker), Brockhampton Estate, Herefordshire, SO6957, 5.ix.2000, discovered by Andy Foster; *Exapion difficile* (Herbst), Roydon Meadow, South Hampshire, SU328002, 27.v.2000; *Nanophyes gracilis* Redtenbacher, near Setley, New Forest, South Hampshire, SZ295994, 26.v.2000. Curculionidae: *Polydrusus pulchellus* Stephens, Overy Creek, West Norfolk, TF8444, 4.vi.2000; *Lixus scabricollis* Boheman, Newhaven, East Sussex, TV443998, 15.v.2000; *Rhinocyllus conicus* (Frölich), Fontmell Down, Dorset, ST8818, 3.vi.2000; *Syagrius intrudens* Waterhouse, Leonardslee, West Sussex, TQ228249, 15.v.2000—British populations of this species are the only ones known; *Bagous brevis* Gyllenhal, near Setley, New Forest, South Hampshire, SZ295994, 26.v.2000; *Bagous collignensis* (Herbst), Balmer Lawn, New Forest, South Hampshire, SU305035, 26.v.2000; *Pseudostyphlus pillumus* (Gyllenhal), Newhaven, East Sussex, TV443998, 15.v.2000; *Pelenomus olssoni* (Israelson), near Setley, New Forest, South Hampshire, SZ295994, 26.v.2000; *Ceutorhynchus turbatus* Schultze, Overy Creek, West Norfolk, TF8444, 4.vi.2000, ?first Norfolk record; *Baris laticollis* (Marsham), Newhaven, East Sussex, TV443998, 15.v.2000; *Mecinus collaris* Germar, Overy Creek, West Norfolk, TF8444, 4.vi.2000.

(3) Some interesting weevils from the eastern Algarve, Portugal, collected 6–12. iv.2000. *Auletobius pubescens* (Kiesenwetter) (Attelabidae), common Mediterranean species, mainly on *Cistus* spp. Apionidae: *Exapion elongatissimum* (Desbrochers), Iberian speciality, on *Cytisus scoparius* (broom); *Phrissotrichum perrisi* (Wencker),

fairly common in Iberian Peninsula, on *Halimium* spp. (Cistaceae); *Phrissotrichum grenieri* (Desbrochers), uncommon species, on shrubby *Helianthemum* spp. (rock-roses); *Phrissotrichum* sp., a 'giant' taxon, possibly only a foodplant race of the common *P. tubiferum*, but requiring investigation, on *Cistus ladanifer* and *C. palliniae* (a Portuguese endemic); *Phrissotrichum tubiferum* (Gyllenhal), common on *Cistus* spp. such as *C. monspeliensis*; *Onychapion poupillieri* (Wencker) — species in this genus are characteristic of the fauna of *Tamarix* spp. (tamarisk); *Ischnopterapion plumbeonicans* (Rosenhauer), one of a number of closely-related species associated with *Lotus* spp. (birdsfoot trefoils). Curculionidae: *Polydrusus chrysomela* (Olivier), on dry, sandy cliff-top, probably polyphagous, a species erroneously included on the British list as a saltmarsh species; *Polydrusus pulchellus* Stephens, saltmarsh species as in British Isles, on *Atriplex portulacoides* (sea purslane); *Sitona gressorius* (Fab.), common species, on *Lupinus* spp. (lupins); *Sitona discoidens* Gyllenhal, common *S. humeralis* lookalike, on *Medicago* spp. (medicks); *Hypera lunata* Wollaston, common species, closely related to *H. dauci* (Olivier) and, like it, on *Erodium* spp. (storksbills); *Coniatus repandus* (Fab.), common in Iberian Peninsula, species in this genus mostly associated with *Tamarix* spp.; *Limobius borealis* (Paykull), genus with few species, but which may need some revisionary work, on *Geranium* spp. (eranesbills), but often taken by general sweeping etc.; *Cionus schoenherri* Brisout, on *Scrophularia canina* and related figworts; *Lixus angustatus* (Fab.), common in the Mediterranean but probably extinct in Britain, mainly on thistles, but also other plants such as *Malva* spp. (Mallows); *Lixus cribricollis* Boheman, fairly common species on *Rumex* (*Rumex*) spp. (Docks); *Lixus junci* Boheman, fairly common, on Chenopodiaceae; *Lixus scabricollis* Boheman, very common in southern Europe and recent colonist (?) in England, on *Atriplex portulacoides* (sea purslane) and other Chenopodiaceae; *Lixus elongatus* (Goeze), very common, on all kinds of thistles; *Lixus anguinus* (L.), uncommon species, usually occurring as singletons, range of hosts not known with certainty but sometimes recorded from Brassicaceae; *Rhinocyllus conicus* (Frölich), common species on various thistles; *Baris tinida* (Rossi), often very common on various Malvaceae (mallows etc.); *Thamnocholus subulatus* (Brisout)—species in this genus are associated with Lamiaceae and few are very common—this species on *Phlomis purpurea*; *Pachytychius hordei* (Brullé) 'ssp.' *squamosus* (Gyllenhal), very common in southern Europe, associated with grasses but often taken by sweeping etc.; *Tychius striatulus* Gyllenhal, common and very variable species associated with various *Oenonis* spp. (restharrow); *Rhynchaenus irroratus* Kiesenwetter, a *R. pilosus* lookalike, on *Quercus suber* (cork oak) and various other oaks; *Rhynchaenus erythropus* (Germar), southern European species, erroneously recorded from England, on *Quercus suber* and other evergreen oaks.

PARSONS, M. S.—*Bembidion coeruleum* Audinet-Serville (Carabidae) (det. M. G. Telfer), Bretts Pit, Dungeness, Kent, 3.v.1989, new to Britain (see M. G. Telfer below), previously confused with *B. tibiale* (Duftschmid) also shown for comparison.

SALISBURY, A.—Some noteworthy beetles from the 3-acre conservation area within the Royal Horticultural Society's Garden, Wisley, Surrey, TQ063591, recorded by A. Halstead and A. Salisbury. *Platyderus ruficollis* (Marshall) (Carabidae), under log, xi.1998; *Stenolophus tentorius* (Schrank) (Carabidae), sweeping, v.1997; *Nicrophorus interruptus* Stephens (Silphidae), on dead mole, vii.1999; *Quedius ventralis* (Aragona) (Staphylinidae), in rotten tree debris, xi.1998; *Agrius laticornis* (Illiger) (Buprestidae), beating oak, vii.1998; *Rhagonycha lutea* (Müller) (Cantharidae), sweeping, vi.1999; *Anobium inexpectatum* Lohse (Anobiidae), bred from dead ivy stem, emerged iv.1997; *Lymexylon navale* (L.) (Lymexylidae), on cut felled oak, vii.1997; *Neplus quadrimaculatus* (Herbst)

(Coccinellidae), beating ivy, ix.1997, iii.2000, iv.2000; *Scaphideuma metallicum* (Fab.) (Tenebrionidae), under log, xi.1998, pitfall trap, v.2000; *Pyrochroa coccinea* (L.) (Pyrochroidae), sweeping, v.1999; *Byctiscus betulae* (L.) (Atelabidae), on ground, ii.2000; *Curculio rubidus* (Gyllenhal) (Curculionidae), sweeping, vi.1998. Occurrences of *Hylotrupes bajulus* (L.) (Cerambycidae), the house longhorn beetle, at RHS, Wisley, recorded by A. Halstead and A. Salisbury, the source of these beetles not yet traced: one alive outside the Garden's gatehouse, TQ066583, 7.viii.2000, the first Garden record; one in laboratory rooftop glasshouse, TQ066583, 16.viii.2000; one outside Hillside Events Centre, TQ065579. [Ed.'s note, see also *Br. J. Ent. Nat. Hist.* 7: 172, for an earlier, outdoor record from nearby Ockham Common, TQ083585]

SMITH, M. N.—Garden Theme exhibit: *Chrysolina americana* (L.) (Chrysomelidae), Winnersh, Berkshire, SU77, small colony present in garden since 1998, adults found on blue lavender (but not on green lavender, *L. viridis*), rosemary and thyme, larvae on rosemary.

TELFER, M. G.—A species new to Britain: *Bembidion coeruleum* Audinet-Serville (Carabidae), Dungeness, East Kent, collected by Sindre Ligaard of Norway, vii.1999, see also M. Parsons above. Other rare or notable species. *Microlestes minutulus* (Goeze) (Carabidae), Dungeness, East Kent, collected by Sindre Ligaard of Norway, vii.1999, new vice-county record and first for south coast; *Aphodius niger* (Panzer) (Scarabaeidae), north-east part of New Forest, South Hampshire, 200–800 adults around small pond in washed up quillwort *Isoetes echinospora*, 2000, a new locality. Some Carabidae collected in France, vi.2000, species very rare or extinct in Britain: *Bembidion coeruleum*, from bars on River Vézère, tributary of R. Dordogne; *Diachromis germanus* (L.), common, often under hay bales; *Chlaenius tristis* (Schaller), on very muddy river bars; *Chlaenius nitidulus* (Schrank), river banks; *Drypta dentata* (Rossi), under hay bales. Beetles from tideline of Atlantic coast of France, may be capable of crossing Channel to Britain: *Badister meridionalis* Puel (Carabidae), probable recent Sussex record; *Parophonus mendax* (Rossi), no British records; *Polyphylla fullo* (L.) (Scarabaeidae), records from Kent coast up to c.1850 and from Sussex coast in 1902; *Leptinotarsa decemlineata* (Say) (Chrysomelidae), Colorado beetle, able to make short sea crossings.

HEMIPTERA

ALEXANDER, K. N. A.—*Deraeocoris olivaceus* (Fab.) (Miridae), Southwick Hill (TQ20), W.Sussex (VC13), beaten from hawthorn in chalk grassland, 29.vi.2000. Nationally Scarce species.

BROOKE, S. E.—*Temnostethus pusillus* (Herrich-Schaeffer) (Cimicidae), Toddington, Bedfordshire, exhibit demonstrating life cycle over two years, first recorded for Bedfordshire in 1998 but since then widely reported in county.

HALSTEAD, A.—*Lygus pratensis* (L.) (Miridae), RHS Garden, Wisley, Surrey (TQ063591), x.1997, swept within conservation area.

JONES, R. A.—*Stictopleurus abutilon* (Rossi) (Rhopalidae), West Acton, Middlesex, 5.x.1999, sweeping rough railway embankment; Woolwich, Kent, 25.vii.2000; *Stictopleurus punctatonevrosus* (Goeze) (Rhopalidae), Woodlands Farm, Bexley, Kent, 7.vii.1998 and 20.viii.1998, sweeping at two different derelict sites; West Acton, Middlesex, 5.x.1999, sweeping rough railway embankment; Chelsea Creek, 8.viii.2000 and 16.viii.2000, several specimens, including nymphs, seen, swept from sparsely vegetated derelict site; *Raglius alboacuminatus* (Goeze) (Lygacidae), Notable, Beddington Corner, Surrey, 20.v.1998; *Lasiosomus enervis* (Herrich-Schaeffer) (Lygacidae), Notable b, Saltbox Hill, Biggin Hill, Kent, 5.vi.1999, sweeping.

NAU, B. S.—*Aquarius paludum* (Fab.) (Gerridae), an exhibit describing first records, including nymphs, for Bedfordshire, from five sites, viii.2000, represents extension of traditional range which is concentrated south of River Thames.

HYMENOPTERA

ALEXANDER, K. N. A.—A chalcid wasp, *Chalcis sispes* (L.), swept from a seepage below limestone pasture, 16.vii.2000, at Aston Farm, Cherington, W. Glos. (VC34, ST99). This is a new county record and an unusual situation for this parasitoid.

BOWDREY, J. P.—Some new county records of gall wasps (Cynipidae). *Phanacis centanreae* Foerster and *Isocolus scabiosae* (Giraud) were both recorded on 4.vi.1999 as new to E. Norf. at Old Hunstanton, TF683426. Both occur on greater knapweed, *Centanrea scabiosa* L. *P. centanreae* was shown as adult insects and galled stems; *I. scabiosae* was shown as old galls in the stems. New to North Essex was *Andricus aries* (Mayr), recorded at Little Clacton, TM1618 on 6.v.2000. This was shown as freshly emerged bud galls on *Quercus robur* L.; galls of *Andricus solitarius* (Boyer de Fonscolombe) were shown for comparison. *A. aries* was first recorded in Britain in 1998 and seems to be extending its range.

DOBSON, J.—Some aculeate Hymenoptera recorded from the London Borough of Harrow (VC21). From Stanmore Common LNR, TQ19, a heathland bumblebee, *Bombus jonellus* (Kirby), feeding from heather flowers, 16.viii.1999; two wetland sphecids wasps, *Crossocerus walkeri* (Shuck.) 28.viii.1998 a mayfly predator and *C. styrius* (Kohl) 20.vi.1998, a predator of small Diptera. From other locations the following insects were shown. Sphecidae: *Stigmus pendulus* (Panz.), 13.vi.1997, Bonnersfield Lane, Kenton, TQ1688; *Crossocerus cetratus* (Shuck.), 9.v.1999, Stanmore Country Park LNR. Megachilidae: *Chelostoma florissomme* (L.), 18.vi.2000, Stanmore Common LNR, TQ160940. From the exhibitor's garden in Harrow, TQ164886—Vespididae: male *Dolichovespula saxonica* (F.), one of several collecting water from a pond, 26.vii.98; Pompilidae: female *Dipogon variegatus* (L.), 13.viii.97 and a female *Auplopus carbonarius* (Scop.), 21.viii.2000.

GODFREY, A.—The bee wolf, *Philanthus triangulum* (Fab.), found in small numbers at a former iron foundry at Renishaw, Derby. on 11.viii.2000. This sphecid wasp nests in sandy soil and stocks its nest with honeybees and some other bee species.

HALSTEAD, A. J.—(1) Some Symphyta and aculeate Hymenoptera taken in 2000. Pamphiliidae: female *Pamphilus sylvarum* (Steph.), swept 28.v.2000 at Welcome & Marsland Devon Wildlife Trust Reserve, Devon, SS239171—a scarce species that develops as larvae in rolled oak leaves. Xyelidae: male *Xyela julii* (Bréb.), swept 16.iv.2000, near Bolder Mere, Ockham Common, Surrey TQ078583—a widespread species that develops in Scots pine catkins but easily overlooked because of its small size. Diprionidae: female *Gilpinia hercyniae* (Hartig), swept 28.vii.2000, river bank wildlife area, RHS Garden, Wisley, Surrey, TQ063591—this species is sometimes a severe pest in larch plantations. Tenthredinidae: male *Dineura testaceipes* (Klug), swept 2.vi.2000 at Buckland Common, SE Dartmoor, Devon, SX7374—the larvae feed on rowan leaves; female *Pseudodineura fuscula* (Klug), swept 21.v.2000, Bourne Fields, N of Horsell Common, Woking, Surrey, TQ001615—the larvae mine *Ranunculus* leaves. Sphecidae: male *Psen bruxellensis* (Bond.) swept from aspen, 20.viii.2000, Ranmore Common, Surrey, TQ123503. Pompilidae: female *Auplopus carbonarius* (Scop.), on a tree root plate in wooded area of Cobbett Hill Common, near Pirbright, Surrey, SU942538, 24.viii.2000. Andrenidae: male *Andrena coitana*

(Kirby) (det D. Baldock), swept 23.viii.2000, Bookham Common, Surrey, TQ122565. Apidae: male *Bombus rudericus* (Müll.), on spear thistle flower, 9.viii.2000, river bank wildlife area, RHS Garden, Wisley, Surrey—this widespread species has become scarce in Surrey.

(2) Some sawflies with larvae that feed on roses. Important pests of cultivated roses: leaf-rolling rose sawfly, *Blennocampa phyllocolpa* (Viitasaari & Vikberg), rose slugworm sawfly, *Endelomyia aethiops* (F.), large rose sawfly, *Arge pagana* (Panz.)—the last mentioned has become much more abundant in recent years. Minor pests of cultivated roses: *Arge ochropus* (Gmel.), *Allantus cinctus* (L.), *A. cingulatus* (Scop.), *Cladius pectinicornis* (Geoff.) and *C. difformis* (Panz.). Sawflies mainly associated with wild roses: *Sterictiphora genuinata* (Gmel.), *Arge nigripes* (Retz.), *Panophilus balteatus* (Fall.), *P. inanis* (Villers), *Ardis brunniventris* (Hartig) and *Pristiphora punctifrons* (Thom.).

JONES, R. A.—A specimen of the bethylid wasp *Laelins microneurus* (Kieffer) found on the kitchen floor of a house in East Dulwich, 22.vi.2000. A second specimen was found on 31.vii.2000. This is a parasitoid of dermestid beetle larvae and many examples of *Dermestes peruvianus* Laporte de Castelnau in all stages were found under a rather unhygienic shag-pile carpet. Perkins, in the 1976 RES Handbook VI pt 3(a), gives only two records: Beckenham, Kent, 1972, and Silwood Park, Ascot, Berks, 1975. Also shown was an African ichneumon wasp, *Ctenochares bicolorus* (L.) found flying about low herbage on Duck Island, one of the three man-made islands in the ornamental lake in Battersea Park, London (VC17, Surrey) on 6.vii.2000. This species is mainly a sub-Saharan species, widely recorded from the Ivory Coast to Somalia down to South Africa. It has also been recorded from Morocco, Algeria, Egypt, Canary Islands, Spain, France, Italy and Greece. In 1970 it was found in Australia, and in New Zealand in 1981. This distribution matches that of the noctuid moth *Chrysodeixis chalcites* (Esp.)/*C. eriosoma* (Doubl.) which is a known host of the parasitoid. This moth is a rare migrant to Britain, mainly recorded in the southern coastal counties but also in Essex, Glamorgan and Inverness-shire.

KNIGHT, G. & A.—A selection of Symphyta and aculeate Hymenoptera from a garden in Wolverhampton WV6 0EB. These included a male common wasp, *Vespa vulgaris* (L.) captured on 1.i.1999, and an abnormal form of the sawfly, *Dolerus aericeps* Thom. The specimen, a male, had asymmetrical development of the reddish colouration on the thorax.

PHILP, E. G.—During the winter of 1999, a dead elm, *Ulmus procera* Salisbury in the exhibitor's garden in Aylesford, Kent was cut down, leaving a 2m high stump. The bark was removed and holes of various diameters were drilled into the wood. During 2000 a variety of insects were seen resting on the trunk, prospecting or actually nesting in the holes. A photograph of the trunk was shown, together with a selection of aculeate hymenoptera and one parasitic wasp caught in the holes. Chrysididae: *Chrysis angustula* Schenck, *C. schencki* Linsenmaier. Sapygidae: *Sapyga quinquepunctata* (F.). Sphecidae: *Crossocerus quadrimaculatus* (F.), *C. megacephalus* (Rossius), *C. podagricus* (Van der Linden), *Ectemnius cavifrons* (Thompson), *E. cephalotes* (Ol.), *Entomognathus brevis* (Van der Linden), *Psenulus pallipes* (Panz.), *Stigmus solskyi* Morawitz, *Penuphredon lugubris* (F.), *P. clypealis* (Thompson). Megachilidae: *Osmia caerulea* (L.). Also shown was the parasitic wasp, *Gasteruption jaculator* (L.) (Gasteruptionidae).

SALISBURY, A.—Some aculeate Hymenoptera recorded in the river bank wildlife area at RHS Garden, Wisley, Surrey, TQ063591. Sphecidae: *Crabro scutellatus* (Scheven), vii.1999; *Ectemnius ruficornis* (Zett.), viii.97. Halictidae: *Lasioglossum malachurus* (Kirby), viii.1999, *Sphecodes lugulus* von Hagens, viii.97 and viii.1999. Melittidae: *Dasypoda altercator* (Harris), vii.1999. These species were recorded by sweeping by A.J. Halstead.

SMITH, M. N.—A selection of uncommon aculeate Hymenoptera taken in 2000. Chrysididae: *Hedychrum niemelai* Linsenmaier, 4.viii.2000, Bagnum Wildlife Trust Reserve, Hants. Tiphidae: *Tiphia minima* Van der Lind., 24.v.2000, Horseshoe Lake, Sandhurst, Berks. Mutillidae: *Smicromyrme rufipes* (F.), 26.vi.2000, Dry Sandford Pit, Oxon. Sapygidae: *Sapyga clavicornis* (L.), 9.v.2000, Horseshoe Lake, Sandhurst, Berks. Formicidae: *Lasius brimmi* (Lat.), 19.x.2000, Hollywood Towers, Cribbs Causeway, S. Glos. (VC34)—found in a damaged, rotting section of a parkland oak. Sphecidae: *Crabro scutellatus* (Scheven), 28.vii.2000, Horseshoe Lake, Sandhurst, Berks.; *Nysson trimaculatus* (Rossius), 19.vii.2000, Armstrong Quarry, Darfolds, Notts. (VC56); *Cerceris quinquefasciata* (Rossius), 23.viii.2000, Dry Sandford Pit, Oxon.; Andrenidae: *Andrena humilis* Imhoff, 24.v.2000, Horseshoe Lake, Sandhurst, Berks.; *Andrena labiata* F., 3.vi.2000, Horseshoe Lake, Sandhurst, Berks. Anthophoridae: *Nomada baccata* Smith, F., 18.vii.2000 and *N. fulvicornis* F., 9.v.2000, both at Swinley Brick Pits, Ascot, Berks.

UFFEN, R. W. J.—Some locally rare and new Hertfordshire bees and wasps, including species with expanding ranges. Eumenidae: *Odynerus spinipes* (L.), both sexes at bramble flowers, 17.vi.2000, Bovingdon brick pits, TL0003. Chrysididae: male *Chrysis viridula* L. on the pit face at the same location as the previous species, 17.vi.2000—the last Herts. record for both species was Bricket Wood c.1943; female *Chrysis gracillima* Förster, on a dead willow, 5.viii.2000, Colney Heath pits, TL2006, and on a pile of brushwood, 30.vii.2000, Beech Farm, Coopers Green, TL1909—this formerly RDB3 ruby-tailed wasp is now more common and is expanding its range in the upper Colne valley. Sphecidae: *Astata boops* (Schr.), *Cerceris arenaria* (L.) and *Philanthus triangulum* (F.) are all new colonists at Mardley Heath, TL2418—seen nesting in company with *Cerceris rybyensis* (L.) in the same few metres of sandy path edge on 16.vii.2000; female *Passaloecus eremita* Kohl, 15.viii.2000, nesting in dead pine trunk, Symondshyde Great Wood, Hatfield, TL1910, new to Herts.; female *Psen bruxellensis* (Bond.), 13.ix.2000, Frogmore Lakes, St Albans, TL1402; male *Argogorytes mystacens* (L.), 22.v.2000, Nomansland Common, Wheathampstead, TL1712, on an oak tree, a rare sighting for Herts. Andrenidae: female *Andrena helvola* (L.), 31.v.2000, taking pollen from *Viburnum lantana* L., Hexton chalk pit, TL1029; male *A. ovata* (Kirby), 16.v.2000, Nomansland Common, Wheathampstead, TL1712, was the first example of the spring brood to be seen in Herts., two females of the second brood were collecting pollen from *Ulex minor* Roth on 23.viii.2000. Halictidae: female *Lasioglossum panxillum* (Schenck), 31.v.2000, Hexton chalk pit, TL1029, the second record for Herts.; male and female *L. lativentris* (Schenck), 15.viii.2000, swept from *Calluna*, Symondshyde Great Wood, Hatfield, TL1910, new to the county. Anthophoridae: female *Nomada lathburiana* (Kirby), 14.v.2000, Bovingdon clay pits, TL0003; female *Nomada ferruginata* (L.), 29.iv.2000, Colney Heath pits, TL2006, a nationally scarce bee new to Herts.—males of the host bee *Andrena praecox* (Scop.) had been seen at the site previously; female *Nomada panzeri* Lepeletier, 6.v.2000, flying at woodland edge, Weston Hills, Baldock, in company with *N. flava* Panz.—the host bees *Andrena nigroaenea* (Kirby) and *A. scotica* Perkins were also present. Megachilidae: *Osmia bicolor* (Schr.) was seen visiting horseshoe vetch, *Hippocrepis comosa* L., 31.v.2000, Hexton chalk pit, TL1029.

WEDD, D.—A worker hornet, *Vespa crabro* L., one of three attracted to MV light, autumn 2000, Henley on Thames, Oxon.

MEGALOPTERA

GODFREY, A.—A nationally scarce alder fly, *Sialis uigripes* Pictet, associated with large clean rivers; not recognised in Britain until 1976. A female was taken by the River Severn at Dolydd Hafren, Garthmyl, Montgom., on 26.vi.2000.

ILLUSTRATIONS

LUCKENS, C.—A video diary of the wildlife seen in a garden in Durley near Bishop's Waltham.

WILSON, D.—Photographs of immature stages of the moths *Phragmataecia castaneae* (Hub.) and *Athetis pallustris* (Hub.).

SHORT COMMUNICATION

The rhododendron leafhopper, *Graphocephala fennahi* Young (Hemiptera; Cicadellidae), in Wales.—The rhododendron leafhopper, *Graphocephala fennahi* (= *coccinea*) is a Nearctic species first reported from Chobham, Surrey UK in 1933 (China, 1935) and now well established in both southern England and several continental European countries (Arzone *et al.* 1987). It is confined to rhododendron and may be very common on bushes in warm sheltered localities. Its bright colours of green and red and relatively large size make it an obvious species. The species has one generation per year and overwintering eggs are laid into the buds and may facilitate the spread of bud blast disease.

Stewart & Wilson (1989) requested distribution records and Kirby *et al.* (2001) provide a map of the current distribution of the species in the UK. The species is widely found in southern England, but with limited encroachment into central England, and SW England. Colonies in NW England might have arisen by eggs being transported in nursery stock rather than natural dispersal. Cross (1974) recorded *G. fennahi* in Ireland but there has been little recording since that date (J.O'Connor pers comm.)

There were, surprisingly, no records from Wales and despite looking periodically over the past 20 years on rhododendron in parks and ornamental gardens no sign of the species had been found. However, in July 2001 they were noticed as being common on rhododendron in Bute Park, Cardiff (ST175775) in the City centre. This appears to be the first record for Wales. While it is possible that *G. fennahi* has been present for some time and not been noticed it is equally possible that it has recently colonised this area, or been transported with nursery stock. Further records, especially from Wales and from south-western and northern England are welcomed. M.R.WILSON, Department of Biodiversity & Systematic Biology, National Museums & Galleries of Wales, Cardiff, CF10 3NP.

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